

Polyethylene



1922T , 3840 , 0035 , BI3 , HBM
5510, 6200, 2420h, 2102TX00 ,
LF 19 - 2119 , 0075 , 020 ,
2100 , 2420E02 , 2420K , LFI
2047A , EX5 , F7000 , , EX5 ,
5110HF , EX3 , CRP100B ,
CRP100N , HEX 4460 (PE80) ,
LLD 209 , LLD 22b02 , LL 235F6 ,
52518 , Hi500 , 54B04UV ,
62N07UV , 52B18UV



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09132867132





3840

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| Property | Test Method | Unit | Typical Value |
|------------------------------|-------------|--------------------|---------------|
| Physical Properties | | | |
| MFI(190°C/ 2.16Kg) | ASTM D 1238 | gr/10Min | 4.0 |
| MFI(190°C / 5.0Kg) | | | |
| Density | ASTM D 1505 | gr/cm ³ | 0.938 |
| Formulation | | | |
| Anti Oxidant | | | ✓ |
| UV Stabilizer | | | ✓ |
| Mechanical Properties | | | |
| Flexural Modulus | ASTM D 790 | MPa | 900 |
| Tensile Strength at yield | ASTM D 638 | MPa | 18 |
| Elongation at Break | ASTM D 638 | % | 900 |
| Charpy Impact Strength | ASTM D 256 | Kj/m ² | 18 |
| Hardness Shore D | ASTM D 2240 | - | 62 |
| ESCR, F50, 100% Igepal, | ASTM D1894 | hr | 400 |
| Thermal Properties | | | |
| Vicat Softening Temperature | ASTM D 1525 | °C | 117 |
| Melting Point | ASTM D2117 | °C | 127 |

52518

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| Property | Test method | Unit | value |
|--------------------------------|--------------|----------|-------|
| Density | ASTM D 1505 | g/ml | 0.952 |
| MFR(190°C/2.16kg) | ASTM D 1238 | g/10 min | 18 |
| Flexural Modulus | ASTM D 709 | MPa | 1350 |
| Notched Izod impact at 23°C | ASTM D 256/A | J/m | 25 |
| Vicat softening point | ASTM D 1525 | °C | 122 |

LL 235F6

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| Resin Properties | Unit | Typical Value | Test Method |
|--------------------------------|-------------------|--------------------|-------------|
| Melt Index (190°C/ 2.16Kg) | g/10 min | 0.6 | D1238 |
| Density | g/cm ³ | 0.923 | D1505 |
| Thermal properties @ | | | |
| Flexural modulus | °C | 107 | D1525 |
| Notched Izod impact at 23°C | °C | 127 | D3418 |
| Mechanical Properties @ | | | |
| Flexural modulus | MPa | 385 | D790 |
| Tensile Strength at Yield | MPa | 11.5/12 (MD/TD) | D882 |
| Tensile Strength at Break | MPa | 47/28 (MD/TD) | D882 |
| Tensile Elongation at Break | % | >600 | D882 |
| Elmendorf Tear | gr | 130/470 (MD/TD) | D1922 |
| Hardness | Shore D | 55 | D2240 |
| ESCR | hr | >1000 | 1693 |

3840

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| Property | Test Method | Unit | Typical Value |
|------------------------------|-------------|--------------------|---------------|
| Physical Properties | | | |
| MFI(190°C/ 2.16Kg) | ASTM D 1238 | gr/10Min | 4.0 |
| MFI(190°C / 5.0Kg) | | | |
| Density | ASTM D 1505 | gr/cm ³ | 0.938 |
| Formulation | | | |
| Anti Oxidant | | | ✓ |
| UV Stabilizer | | | ✓ |
| Mechanical Properties | | | |
| Flexural Modulus | ASTM D 790 | MPa | 900 |
| Tensile Strength at yield | ASTM D 638 | MPa | 18 |
| Elongation at Break | ASTM D 638 | % | 900 |
| Charpy Impact Strength | ASTM D 256 | Kj/m ² | 18 |
| Hardness Shore D | ASTM D 2240 | - | 62 |
| ESCR, F50, 100% Igepal, | ASTM D1894 | hr | 400 |
| Thermal Properties | | | |
| Vicat Softening Temperature | ASTM D 1525 | °C | 117 |
| Melting Point | ASTM D2117 | °C | 127 |

22b02

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| Property | Test method | Unit | value |
|------------------------|-------------|----------|---------------------|
| Melt Index | ASTM D1238 | g/10 min | 1.8-2.2 |
| Density | ASTM D1505 | g/l | 0.920-0.924 |
| F/E Ratio | ASTM D1238 | - | <30 |
| Yellowness Index | ASTM D1925 | - | 0.5 |
| Ti content | MTM 15636 | Ppm wt | 2 |
| Fish Eyes | MTM 17108 | Gels/m2 | 60 |
| Haze | ASTM D1003 | % | 13 |
| Gloss | ASTM D2457 | %O | 90 |
| Dart impact | ASTM D1709 | gr | 60 |
| Tensile strength@Yield | ASTM D882 | Mpa | MD/ 12 TD/ 13 |
| Tensile strength@Break | ASTM D882 | Mpa | MD/ 40 TD/ 38 |
| Elongation@Break | ASTM D882 | % | MD/ 850 TD/ 1000 |

LLD 209

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| Typical properties | Test method (ASTM) | Unit | Value |
|-------------------------------|--------------------|----------|---------|
| Resin | | | |
| MFI@190°C, 2.16 kg | D1238 | gr/10min | 0.9 |
| Density | D2839 | gr/ml | 0.920 |
| Vicat Softening Point | D1525 | °C | 100 |
| Film * | | | |
| Tensile Strength@Yield, MD/TD | D638 | Mpa | 10.5/11 |
| Elongation@Break, MD/TD | D638 | % | 620/840 |
| Tensile Strength@Break, MD/TD | D688 | Mpa | 41/32 |
| Tear Strength, MD/TD | D1922 | gr/25mic | 145/370 |
| Impact Strength, Dart | D1709 | gr | 150 |
| Haze | D1003 | % | 10 |
| Gloss (45°) | D2457 | Rating | 56 |

CRP100N

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| Test/Composition | Typical Value | Unit | Method |
|-----------------------------|-------------------------------|--------------------|------------|
| Density | 0.948 | g/cm ³ | ISO 1183 |
| FRR 21.6/5 | 28 | | |
| Hydrostatic Strength(80° C) | 5000 (4.5 N/mm ²) | h | ISO1167 |
| MFR 190° /21.6 | 6.2 | g/10min | ISO1133 |
| MFR190° /5 | 0.22 | g/10min | ISO1133 |
| Notched Impact (23° c) | 24 | mJ/mm ² | ISO179/1eA |

CRP100B

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| Property | Test method | Unit | value |
|-----------------------------|--------------|--------------------|-------|
| Density | ISO 1183 | g/m ³ | 0.948 |
| MFR (190°C/5kg) | ISO 1133 | g/10 min | 0.22 |
| MFR (190°C/21.6kg) | ISO 1133 | g/10 min | 6.2 |
| FRR (21.6kg/5kg) ** | - | - | 27 |
| Notched Impact (23°C)*** | ISO 179/1 eA | MJ/mm ² | > 24 |
| Hydrostatic Strength (80°C) | ISO 1167 | H | 5000 |

EX3

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| Property | Test method | Unit | value |
|---|--------------------|-------------------|---------|
| Melt Flow Rate(MFR) (190°C/5kg) (190°C/21.6kg) | ISO 1133 | g/10min | 0.45 12 |
| Density | ISO 1183 | g/cm ³ | 0.945 |
| MRS Classification | ISO/TR 9080 | MPa | 8 |
| Hydrostatic Strength (80°C) | ISO 1167 /DIN 8075 | hr | 1000 |
| Hydrostatic Strength (80°C) | ISO 1167 /DIN 8075 | hr | 1000 |
| Tensile Modulus (23°C, v= 1mm/min, Secant) | ISO 527-1,2 | MPa | 850 |
| Tensile Stress at yield (23°C,v=50mm/min) | ISO 527-1,2 | MPa | 22 |
| Tensile Stress at yield (23°C,v=50mm/min) | ISO 527-1,2 | % | 8 |
| Charpy Notch Impact Strength (23°C) | ISO 179 | Kj/m ² | 12 |
| Hardness Shore D (3 Sec) | ISO 868 | -- | 60 |
| Vicat Softening Temperature | ISO 306 | °C | 67 |
| Melting Point | ISO 3146 | °C | 136 |

HMI50

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| | HD-52518 (Commercial PE) | HMI-5035 (Commercial PE) | HMI50 (Commercial PE) |
|---------------------------|-----------------------------|-----------------------------|--------------------------|
| MFI (g/10min) | 18 (190 °C, 2.16 kg) | 35 (190 °C, 2.16 kg) | 50 (190 °C, 2.16 kg) |
| Density (g/cc) | 0.952 | 0.950 | 0.950 |
| Izod Impact AMB. (J/m) | 22.18 | 19.13 | 20 |
| Flexural Modulus (MPa) | 1200 | 1130 | 1115 |
| Vicat Softening Point (C) | 124 | 118 | 116 |

0200

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| Property | Unit | Value | Test Method |
|-------------------------|------------|----------|-------------|
| MFI (190 °C/2.16 kg) | gr/10 min. | 2 | ASTM D 1238 |
| Density | gr/ml | 0.920 | *TSTM 209 B |
| Softening point | °C | 94 | ASTM D 1525 |
| Haze | % | 15 max. | ASTM D 1003 |
| Gloss @ 60 | Gu | 60 min. | ASTM D 523 |
| Elongation @ break (MD) | % | 330 min. | ASTM D 882 |
| Elongation @ break (TD) | % | 600 min. | ASTM D 882 |
| Tensile @ break (MD) | kg/cm | 160 min. | ASTM D 882 |
| Dart impact | Gr | 100 min. | ASTM D 1709 |

2420H

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| Property | Value | Units | Test Method |
|---|---------|-------------------|---------------|
| Density | 0.924 | g/cm ³ | ISO 1183 |
| Melt flow rate (MFR)(190°C/2.16Kg) | 1.9 | g/10 min | ISO 1133 |
| Tensile Modulus | 260 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 11 | MPa | ISO 527-1, -2 |
| Tensile Strength at Break MD/TD | 26/18 | MPa | ISO 527-1, -3 |
| Tensile Strain at Break MD/TD | 250/600 | % | ISO 527-1, -3 |
| Dart Drop Impact(50 blown film) | 110 | g | ASTM D 1709 |
| Vicat softening temp(A50 (50 °C/h 10N)) | 94 | °C | ISO 306 |
| Haze (50) | <8.0 | % | ASTM D 1003 |
| Gloss (60°, 50) | >100 | | ASTM D 2457 |

EX5

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| Property | Test method | Unit | value |
|---------------------------------|--------------|-------------------|---------|
| Mass density (23°C) | ISO 1183 | g/cm ³ | 0.949 |
| Melt Flow Rate (190°C/5kg) | ISO 1133 | g/10min | 0.28 |
| Melt Flow Rate (190°C/21.6kg) | ISO 1133 | g/10min | 8 |
| Stress at yield | ISO 527 | MPa | 24 |
| Stress at Break | ISO 527 | MPa | 35 |
| Softening Temperature | ISO 306 | °C | 75 |
| Brittle Temperature | ASTM D746-72 | °C | < - 80 |
| Shore D hardness | ISO 868 | -- | 60 |
| Application Properties** | | | |
| Max. Tensile strength MD/TD | ISO 527 | MPa | 45/40 |
| Tear strength MD/TD | ISO 6383-2 | mN | 200/450 |
| Max. elongation MD/TD | ISO 527 | % | 400/450 |
| Dart Drop Impact | ASTM D1709 | g | 220 |

1922

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| Properties | Value | unit | Test method |
|--|-------|-------------------|---------------|
| Polymer Properties | | | |
| MFI (190 °C /2 .16 Kg) | 22 | dg/min | ISO 1133 |
| MFI (190 °C /5 Kg) | 75 | dg/min | ISO 1133 |
| MVR (190 °C /2 .16 Kg) | 29 | ml/10min | ISO 1133 |
| MVR (190 °C /5 Kg) | 98 | ml/10min | ISO 1133 |
| Density | 919 | Kg/m3 | ISO 1183 (A) |
| Thermal Properties | | | |
| Heat deflection temperature at 0.45MPa (HDT/B) | 39 | °C | ISO 75 |
| Vicat softening temperature at 10N (VST/A) | 82 | °C | ISO 306 |
| Melting Point | 105 | °C | DIN 53765 |
| Enthalpy change | 104 | J/g | DIN 53765 |
| Mechanical properties | | | |
| Stress at yield | 8 | MPa | ISO 527/2 |
| Stress at break | 7 | MPa | ISO 527/2 |
| Strain at break | 400 | % | ISO 527/2 |
| Tensile modulus | 175 | MPa | ISO 527/2 |
| Creep modulus (After 1 hour) | 80 | MPa | ISO 899 |
| Creep modulus (After 1000 hour) | 45 | MPa | ISO 899 |
| Notched Izod at +23°C | 42 | KJ/m ² | ISO 180 A |
| Notched Izod at -30 °C | 5 | KJ/m ² | ISO 180 A |
| Notched Tensile impact strength | 86 | KJ/m ² | ISO 8256/1B |
| Elongation at break | 8.4 | % | ISO 8256/1B |
| Maximum Tension | 16 | MPa | ISO 8256/1B |
| Hardness Shore D | 45 | - | ISO 868 |
| Ball indentation test | | | |
| Applied load | 49 | N | ISO 2039-1 |
| Ball indentation hardness | 16 | MPa | ISO 2039-1 |
| ESCR | 3 | h | SABTEC Method |
| Additive | | | |
| Antioxidant | | | |

F7000

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| Property | Test method | Unit | value |
|----------------------------------|-------------|--------------------|-----------|
| Density (23°C) | ISO 1183 | g/cm ³ | 0.952 |
| Melt Flow Rate (190°C/2.16kg) | ASTM D 1238 | g/10 min | 0.04 |
| Melt Flow Rate (190°C/21.6kg) | ASTM D 1238 | g/10 min | -- |
| Stress at Yield Point | ASTM D 638 | Kg/cm ² | 250 |
| Stress at Break | ASTM D 638 | Kg/cm ² | 390 |
| Elongation at Break | ASTM D 638 | % | Above 500 |
| Izod Impact | ASTM D 256 | Kg.cm/cm | 30 |
| Stress Cracking Resistance | ASTM D 1693 | hr | Above 600 |
| Melting Point | ASTM D 2117 | °C | 131 |

2102

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| Property | Unit | Value | Test Method |
|---------------------------|-------------------|--------|--------------|
| MER* | dg/10min | 1.9 | ISO 1133 |
| Density* | kg/m ³ | 921 | ISO 1183 (A) |
| Optical properties | | | |
| Haze | % | 11 | ASTM D1003A |
| Clarity | mV | 29 | DSM METHOD |
| Gloss | % | 50±5 | ASTM D2457 |
| Formulation | | | |
| Anti oxidant** | ppm | 600±60 | DSM METHOD |
| Anti block | ppm | - | |
| Slip | ppm | - | |
| Film Properties | | | |
| Impact Strength | kJ/m | 26 | ASTM D4272 |
| Tear Strength TD | kN/m | 25 | ISO 6383-2 |
| Tear Strength MD | kN/m | 60 | ISO 6383-2 |
| Yield Stress TD | MPa | 11 | ISO R527-1 |
| Yield Stress MD | MPa | 13 | ISO R527-1 |
| Tensile Strength TD | MPa | 20 | ISO R527-1 |
| Tensile Strength MD | MPa | - | ISO R527-1 |
| Elongation at break TD | % | >500 | ISO R527-1 |
| Elongation at break MD | % | 150 | ISO R527-1 |
| Modulus of elasticity TD | MPa | 200 | ISO R527-1 |
| Modulus of elasticity MD | MPa | 190 | ISO R527-1 |
| Secant Modulus | | | |
| Puncher resistance | | | |
| Coefficient of friction | | >1.0 | ASTM D1894 |

2420E02

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| Characteristic | Typical value | Unit | Test method |
|-----------------------------------|----------------------|-------------|--------------------|
| Density | 0.923±0.002 | gr/ml | ISO 1183A |
| Melt flow index (190°C/2.16kg) | 1.9±0.02 | gr/10min | ISO 1133 |
| Impact strength (23°C) | 26 | KJ/ M | ASTM D4272 |
| Tear strength (TD) | 25 | KN/ M | ASTM D6383-2 |
| Tear strength (MD) | 60 | KN/ M | ASTM D6383-2 |
| Strain at break (TD) | >500 | % | ISO 527 |
| Strain at break (MD) | >500 | % | ISO 527 |
| Yield stress (TD) | >200 | % | ISO 527 |
| Yield stress (MD) | 11 | Mpa | ISO 527 |
| Coefficient of friction | 13 | Mpa | ISO 527 |
| HAZE | 1 | - | ASTM D1894 |
| Gloss | ≤6.5 | % | ASTM 1003A |
| Dart drop impact | 55 | % | ASTM D2457 |
| Fish eye | >120 | g | ASTM 1709 |
| | ≤3 | No./m2 | Internal |

2100

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| Property | | | Test Method |
|---------------------------|-------------------|--------|--------------|
| MFR* | dg/10min | 0.3 | ISO 1133 |
| Density* | kg/m ³ | 921 | ISO 1183 (A) |
| Optical properties | | | |
| Haze | % | 15 | ASTM D1003A |
| Clarity | mV | 56 | DSM METHOD |
| Gloss | % | 59±5 | ASTM D2457 |
| Formulation | | | |
| Anti oxidant** | ppm | 600±60 | DSM METHOD |
| Anti block | ppm | - | |
| Slip | ppm | - | |
| Film Properties | | | |
| Impact Strength | kJ/m | 35 | ASTM D4272 |
| Tear Strength TD | kN/m | 25 | ISO 6383-2 |
| Tear Strength MD | kN/m | 20 | ISO 6383-2 |
| Yield Stress TD | MPa | 11 | ISO R527-1 |
| Yield Stress MD | MPa | 12 | ISO R527-1 |
| Tensile Strength TD | MPa | 26 | ISO R527-1 |
| Tensile Strength MD | MPa | 29 | ISO R527-1 |
| Elongation at break TD | % | >500 | ISO R527-1 |
| Elongation at break MD | % | >200 | ISO R527-1 |
| Modulus of elasticity TD | MPa | 190 | ISO R527-1 |
| Modulus of elasticity MD | MPa | 180 | ISO R527-1 |
| Secant Modulus | | | |
| Puncher resistance | | | |
| Coefficient of friction | | 0.7 | ASTM D1894 |

LFI 2119

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| Typical Properties | Typical Value 1 | Unit | Test Method |
|---|--------------------|-------------------|---------------|
| Physical | | | |
| MFI (190 °C /2.16 Kg) | 1.9 | dg/min | ISO 1133 |
| Density 2 | 921 | Kg/m ³ | ISO 1183 (A) |
| Mechanical 3 | | | |
| Impact Strength | 26 | kJ/m | ASTM D4272 |
| Tear Strength (TD) | 25 | kN/m | ISO 6383-2 |
| Tear Strength (MD) | 60 | kN/m | ISO 6383-2 |
| Yield Stress (TD) | 11 | MPa | ISO 527-1,3 |
| Yield Stress (MD) | 13 | MPa | ISO 527-1,3 |
| Tensile Stress at Break (TD) | 20 | MPa | ISO 527-1,3 |
| Tensile Stress at Break (MD) | 35 | MPa | ISO 527-1,3 |
| Strain at Break (TD) | > 500 | % | ISO 527-1,3 |
| Strain at Break (MD) | > 150 | % | ISO 527-1,3 |
| Modulus of Elasticity (TD) | 200 | MPa | ISO 527-1,3 |
| Modulus of Elasticity (MD) | 190 | MPa | ISO 527-1,3 |
| Coefficient of Friction | >1 | - | ASTM D1894 |
| Blocking | 20 | g | ASTM D3354 |
| Re-blocking | 100 | g | SABTEC method |
| Optical | | | |
| Haze | 9 | % | ASTM D1003 A |
| Gloss (45°) | 55 | GU | ASTM D2457 |
| Recommended Process Conditions | | | |
| 4 | | | |
| Extruder temperature profile: 165-185°C | Blow up ratio: 2-3 | | |
| film thickness: 20-50 µm | | | |

LFI 2047

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| Properties | Value ⁽¹⁾ | unit | Test method |
|--|----------------------|--------|---------------|
| Physical Properties | | | ISO 1133 |
| MFI (190 °C /2 .16 Kg) | 4.7 | dg/min | ISO 1183 (A) |
| Density | 920 | Kg/m3 | |
| Mechanical properties ⁽²⁾ | | | |
| Impact strength | 15 | KJ/m | ISO 7765-2 |
| Tear strength (TD) | 25 | KN/m | ISO 6383-2 |
| Tear Strength (MD) | 80 | KN/m | ISO 6383-2 |
| Yield stress (TD) | 11 | MPa | ISO 527-1/3 |
| Yield stress (MD) | 12 | MPa | ISO 527-1/3 |
| Tensile Stress at break (TD) | 15 | MPa | ISO 527-1/3 |
| Tensile Stress at break (MD) | 27 | MPa | ISO 527-1/3 |
| Strain at Break (TD) | >500 | % | ISO 527-1/3 |
| Strain at Break (MD) | 100 | % | ISO 527-1/3 |
| Modulus of Elasticity (TD) | 200 | MPa | ISO 527-1/3 |
| Modulus of Elasticity (MD) | 200 | MPa | ISO 527-1/3 |
| Coefficient of friction | 0.2 | | ASTM D 1894 |
| Blocking | 20 | g | SABTEC method |
| Re-blocking | 10 | g | SABTEC method |
| Optical properties ⁽²⁾ | | | |
| Haze | 9 | % | ASTM D 1003A |
| Gloss(45°) | 55 | % | ASTM D 2457 |
| Clarity | 21 | mV | |
| <i>Additive: Antioxidant , Slip agent, Anti blocking agent</i> | | | |

HFI 5110

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| Typical Properties | Typical Value ¹ | Unit | Test Method |
|--|----------------------------|-------------------|---------------|
| Physical | | | |
| High Load Melt Flow Index (190°C/ 21.6 kg) | 10 | g/10 min | ISO 1133 |
| Density ² | 0.951 | g/cm ³ | ISO 1183 |
| Mechanical ³ | | | |
| Tensile Modulus of Elasticity | 1050 | MPa | ISO 527-1, -2 |
| Tensile Strength (MD) | 55 | MPa | ISO 527-1, -3 |
| Tensile Strength (TD) | 55 | MPa | ISO 527-1, -3 |
| Tensile Strain at Break (MD) | 580 | % | ISO 527-1, -3 |
| Tensile Strain at Break (TD) | 620 | % | ISO 527-1, -3 |
| Tensile Stress at Yield | 26 | MPa | ISO 527-1, -3 |
| Tensile Strain at Yield | 10 | % | ISO 527-1, -3 |
| Elmendorf Tear Strength (MD) | 250 | mN | ISO 6383-2 |
| Elmendorf Tear Strength (TD) | 600 | mN | ISO 6383-2 |
| Thermal | | | |
| Melting Temperature | 132 | °C | ISO 3146 |
| Vicat Softening Temperature (Method A/10N) | 127 | °C | ISO 306 |
| Recommended Process Conditions ⁴ | | | |
| Extruder temperature profile: 200-235 °C | Blow up ratio: 3-5 | | |
| Film thickness: 15-50 µm | | | |

HB 0035

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| Property | Unit | Value | Test Method |
|--------------------------|--------------------|-----------|-------------|
| MFI (190 °C /2. 16 kg) | gr/10min. | 0.35 | ASTM D 1238 |
| Density | gr/cm ³ | 0.959 | ASTM D 1505 |
| Izod impact strength | Kg.cm/cm | 25 min | ASTM D 256 |
| Yellow index | -- | -5 max. | ASTM D 1925 |
| Ash content | wt% | 0.06 max | ASTM D 1063 |
| Volatile matter | wt% | 0.05 max. | ASTM D 1960 |
| Tensile strength @ break | gr/cm ² | 290 min | ASTM D 638 |
| Elongation @ break | % | 900 min | ASTM D 638 |
| Melting point | °C | 130 | ASTM D 2117 |
| Vicat softening point | °C | 126 | ASTM D 1525 |
| ESCR | hr | 15 | ASTM D 1693 |