



HD-EX 3-80S

License Grade Code HM 5010 T3 N

Product Description:

"EX3-80S" is a high density polyethylene with 1-Butene as co monomer. It is natural, excellent ESCR, high impact strength, outstanding hydrostatic strength for PE 80 class.

Applications:

- Pipe extrusion PE 80 class
- Industrial and pressure pipe, Gas pipe, drinking water pipe
- relining, fittings

Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23 C)	ISO 1183	g/cm ³	0.944
Melt Flow Rate (190 C/5.0kg)	ISO 1133	g/10min	0.43
Melt Flow Rate (190 C/21.16kg)	ISO 1133	g/10min	10.3
FRR(21.6/5)		-	24



PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Stress at Yield	ISO 527	Mpa	22
Flexural Creep Modulus (4point, 1min)	DIN 19537-2	Mpa	900
Tensile Modulus (23 C, v=1mm/min, secant)	ISO 527	Mpa	850
Stress at Break	ISO 527	Mpa	35
Elongation at Break	ISO 527	%	>1000
Elongation at Yield	ISO 527	%	10
Softening Temperature	ISO 306	C	67
Brittle Temperature	ASTM D746-72	C	<-80
shore D hardness	ISO 868		59
ESCR in full notch creep test (80 C, 2% Arcopal)	ISO CD 18770	h@4.0 Mpa	200
Impact strength (23 C)	ISO 179/1eA	Kj/m ²	23
S4 Test (RCF)	ISO DIS 13477	bar	PC >3
Notch Test (SCG)	ISO DIS 13479	Mpa h@4.0	>2500
Hydrostatic strength test (80 C)	ISO 1167	Mpa h@4.5	>5000
VN	-	Cm ³ /g	>300
FNCT (950C, 4.0MPa)	-	h	>100

- Typical Values: not to be construed as specifications
- Recommended melt temp: 190-220 c

