



NAME: HD -EX 3 – 80 License Grade Code HM 5010 T2N

Product Description:

“EX3-80” is a high density polyethylene with 1-Butene as co monomer .It is natural, good ESCR, good impact strength, tough and rigid pipe resin.

Applications:

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

Typical data: (Table)

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23 ⁰ C)	ISO 1183	g/cm ³	0.945
Melt Flow Rate (190 ⁰ C/5.0kg)	ISO 1133	g/10min	0.45
Melt Flow Rate (190 ⁰ C/21.6 kg)	ISO 1133	g/10min	12
Stress at Yield	ISO 527	MPa	22
Flexural Creep Modulus (4point, 1min)	DIN 19537-2	MPa	950
Tensile Modulus (23 ⁰ C, v = 1mm / min ,Secant)	ISO 527	MPa	850
Stress at Break	ISO 527	MPa	35
Elongation at Break	ISO 527	%	>850
Elongation at yield	ISO 527	%	8
Softening Temperature	ISO 306	0C	67
Brittle Temperature	ASTM D746-72	0C	< - 80
Shore D hardness	ISO 868	-	60
ESCR in Full Notch Creep Test (80 ⁰ C, 2% Arcopal)	ISO CD 16770	h@4.0 MPa	50
Impact strength (23 ⁰ C)	ISO 179/1eA	Kj/m ²	23
Expected Properties on Application			
S4 Test (RCP)	ISO DIS 13477	Bar	Pc > 3
Notch Test (SCG)	ISO DIS 13479	h@4.0 MPa	>250
Hydrostatic strength test (80 ⁰ C)	ISO 1167	h@4.6 MPa	>1000

Typical Values: not to be construed as specifications

Processing condition:

Recommended melt temperature: 190 - 220 ⁰C

Packing: 25 Kg plastic bag.