

PRODUCT DATA SHEET

Product Category	Product Name	Grade
Polymers	POLYETHYLENE – HDPE	EX3-80_HM5010T2N – PE 80

Property	Test Method	Unit	Value
Mass density (230C)	ISO 1183	g/cm3	0.945
Melt Flow Rate (1900C/5.0kg)	ISO 1133	g/10min	0.45
Melt Flow Rate (1900 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 (230C, $\nu = 1\text{mm} / \text{min}$, 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	0 C	67
Brittle Temperature	ASTM D746-72	0 C	< - 80
Shore D hardness	ISO 868	-	60
ESCR in Full Notch Creep Test (800 C, 2% Arcopal)	ISO CD 16770	h@4.0 MPa	50
Impact strength (230 C)	ISO 179/1eA	Kj/m2	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 (800 C)	ISO 1167	h@4.6 MPa	>1000

Application	Pipe extrusion PE 80 class -Industrial and pressure pipe , Gas pipe, drinking water pipe -Pressure less pipe , relining , fittings
Packaging	25 Kg plastic bag