

PRODUCT DATA SHEET

Product Category	Product Name	Grade
Polymers	POLYETHYLENE – HDPE	EX3100S_HMCRP100 N PE 100

Property	Test Method	Unit	Value
Mass density (230C)	ISO 1183	g/cm3	0.94
Melt Flow Rate (1900C/5.0kg)	ISO 1133	g/10min	0.22
Melt Flow Rate (1900C/21.6 kg)	ISO 1133	g/10min	6.2
stress at Yield	ISO 527	MPa	23
Flexural Creep Modulus (4point, 1min)	DIN 19537-2	MPa	1050
Tensile Modulus (230C, $\nu = 1\text{mm} / \text{min}$,Secant)	ISO 527	MPa	850
Stress at Break	ISO 527	MPa	36
Elongation at Break	ISO 527	%	>1000
Elongation at yield	ISO 527	%	10
Softening Temperature	ISO 306	0C	74
Brittle Temperature	ASTM D746-72	0C	< - 80
Shore D hardness	ISO 868		62
ESCR in Full Notch Creep Test (800C, 2% Arcopal)	ISO CD 16770	h@4.0 MPa	400
Impact strength (230C)	ISO 179/1eA	Kj/m2	25
S4 Test (RCP)	ISO DIS 13477	Bar	Pc> 20
Notch Test (SCG)	ISO DIS 13479	h@4.6 MPa	>1000
Hydrostatic strength test (800c)	ISO 1167	h@4.6 MPa	>15000

Application	Pipe extrusion PE 100 class -Industrial and pressure pipe , Gas pipe, drinking water pipe -relining , fittings
Packaging	25 Kg plastic bag