



SIRJAN GOSTAR CO.

HD –EX 3 – 100S License Grade Code HM CRP 100 N

1) Product Description:

“EX3-100S” is a high density polyethylene with 1-Butene as co monomer .It is Natural, outstanding ESCR, high impact strength, outstanding hydrostatic strength for PE 100 class.

2) Applications:

- Pipe extrusion PE 100 class
- Industrial and pressure pipe , Gas pipe, drinking water pipe
- relining , fittings

3)Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23°C)	ISO 1183	g/cm ³	0.948
Melt Flow Rate (190°C/5.0kg)	ISO 1133	g/10min	0.22
Melt Flow Rate (190°C/21.6 kg)	ISO 1133	g/10min	6.2
Stress at Yield	ISO 527	MPa	23
Flexural Creep Modulus (4point,	DIN 19537-2	MPa	1050
Tensile Modulus (23°C, v = 1mm / min	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	°C	74
Brittle Temperature	ASTM D746-72	°C	< - 80
Shore D hardness	ISO 868		62
ESCR in Full Notch Creep Test (80°C,	ISO CD 16770	h@4.0 MPa	400
Impact strength (23°C)	ISO 179/1eA	Kj/m ²	25
Expected Properties on Application			
S4 Test (RCP)	ISO DIS 13477	Bar	P _c > 20
Notch Test (SCG)	ISO DIS 13479	h@4.6 MPa	>1000
Hydrostatic strength test (80°C)	ISO 1167	h@4.6 MPa	>15000

* Typical Values : not to be construed as specifications

4) Processing condition:

Recommended melt temperature: 190 - 220 °C