

## 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 (23oC)	ISO 1183	g/cm <sup>3</sup>	0.948
Melt Flow Rate (190oC/5.0kg)	ISO 1133	g/10min	0.22
Melt Flow Rate (190oC/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 (23oC, v = 1mm / 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	oC	74
Brittle Temperature	ASTM D746-72	oC	< - 80
Shore D hardness	ISO 868		62
ESCR in Full Notch Creep Test (80oC, 2% Arcopal )	ISO CD 16770	h@4.0 MPa	400
Impact strength (23oC)	ISO 179/1eA	Kj/m <sup>2</sup>	25
Expected Properties on Application			
S4 Test (RCP)	ISO DIS 13477	Bar	Pc > 20
Notch Test (SCG)	ISO DIS 13479	h@4.6 MPa	>1000
Hydrostatic strength test (80oc)	ISO 1167	h@4.6 MPa	>15000

\* Typical Values : not to be construed as specifications

### 4) Processing condition:

Recommended melt temperature: 190 - 220<sup>o</sup>C