



HD-EX 3-100S

License Grade Code HM CRP 100 N

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.

Applications:

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

Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE ²
Mass density (23 C)	ISO 1183	g/cm3	0.948
Melt Flow Rate (190 C/5.0kg)	ISO 1133	g/10min	0.22
Melt Flow Rate (190 C/21.16 kg)	ISO 1133	g/10min	6.2
FRR(21.6/5)		-	27



PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Stress at Yield	ISO 527	Mpa	23
Flexural Creep Modulus (4point, 1min)	DIN 19537-2	Mpa	1050
Tensile Modulus (23 C, 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 308	C	74
Brittle Temperature	ASTM D746-72	C	<-80
shore D hardness	ISO 888		62
ESCR in full notch creep test (80 C, 2% Arcopal)	ISO CD 16770	h@4.0 Mpa	400
Impact strength (23 c)	ISO 179/1eA	Kj/m2	25
S4 Test (RCP)	ISO DIS 13477	bar	PC >20
Notch Test (SOG)	ISO DIS 13479	Mpa h@4.0	>1000
Hydrostatic strength test (80 c)	ISO 1167	Mpa h@4.5	>15000
VN	-	Cm3/g	>360
FNCT (950C, 4.0MPa)	-	h	>5000

- Typical Values: not to be construed as specifications
- Recommended melt temp: 190~220 c