

HIGH DENSITY POLYETHYLENE (PIPE)

TASNEE 100 Blue

DESCRIPTION

TASNEE 100 Blue is a High Density Polyethylene, blue colored resin. The product is classified as PE 100. TASNEE 100 Blue provides excellent environmental stress cracking resistance properties (ESCR) with very good long term hydrostatic strength and combines very high impact and stiffness properties.

TYPICAL APPLICATIONS

Drinking Water distribution pipes.

TYPICAL PROPERTIES

Physical	Method	Unit	Value
Density	ISO 1183	g/cm ³	0.950
Melt Flow Rate (190°C /5 kg)	ISO 1133	g/10 min	0.23
Melt Flow Rate (190°C /21.6 kg)	ISO 1133	g/10 min	6.4
Staudinger Index Jg	ISO 1628	ml/g	380
Vicat Softening Temperature(VST/B/50 K/h (50N))	ISO 306	°C	74

Mechanical	Method	Unit	Value
Tensile Modulus (23°C, v = 1mm/min, Secant)	ISO 527-1, -2	MPa	850
Tensile Stress @ Yield (23°C, v = 50 mm/min)	ISO 527-1, -2	MPa	23
Tensile Strain @ Yield (23°C, v = 50 mm/min)	ISO 527-1, -2	%	9
Tensile Creep Modulus 1h [Test stress in MPa]	ISO 899-1	MPa	850 [2.0]
Tensile Creep Modulus 1000h [Test stress in MPa]	ISO 899-1	MPa	350 [2.0]
Maximum Elongation TD	EN 638	%	>350
MRS Classification	ISO/TR 9080	MPa	10
Flexural Stress at 3,5% deflection	ISO 178	MPa	20
FNCT (4.0 MPa, 2% Arkopal N 100, 80°C)	ISO 16770	h	>1000
Flexural Creep Modulus	DIN 19537-2		
(4 Point loading method, 1 min-value)		MPa	1100
(4 Point loading method, 24 h-value)		MPa	560
(4 Point loading method, 2000 h-value)		MPa	330
Charpy Notched Impact Strength	ISO 179		
(23°C)		kJ/m ²	29
(-30°C)		kJ/m ²	15
Shore Hardness (Shore D (3 sec))	ISO 868		62
Oxidation Induction Time (OIT) (210°C)	EN 728	min	≥30
Odour Treshold	EN 1622 / EN 1240		< 2

Recommended Temperatures

Melt temperature: 190–220 °C

Injection moulding temperatures: 200–280 °C

NOTE The above properties values are not to be construed as specifications.



Mob : + 91 8910506413 / 9831235030

<https://www.interchemindia.in>