

HIGH DENSITY POLYETHYLENE (PIPE)

TASNEE 100 Black

DESCRIPTION

TASNEE 100 Black is a High Density Polyethylene, black colored resin. The product is classified as PE 100. TASNEE 100 Black 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

Gas, water distribution, sewage and drainage pipes.

TYPICAL PROPERTIES

Physical	Method	Unit	Value
Density	ISO 1183	g/cm ³	0.959
Melt Flow Rate (190°C /5kg)	ISO 1133	g/10 min	0.23
Melt Flow Rate (190°C /21.6kg)	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	900
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	360 [2.0]
Maximum Elongation TD	EN 638	%	>350
MRS Classification	ISO/TR 9080	MPa	10
Flexural Stress at 3,5% deflection	ISO 178	MPa	21
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	26
(-30°C)		kJ/m ²	13
Shore Hardness (Shore D (3 sec))	ISO 868		63
Oxidation Induction Time (OIT) (210°C)	EN 728	min	30
Carbon Black Content	ISO 6964	%	2.25
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

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