

Kazanorgsintez PE2NT 11-9 High Density Polyethylene Composite

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

Production Method: Copolymerization of ethylene at low pressure in presence of complex catalysts using gaseous-phase method.

Application: Composition is intended to be processed into pressure pipes and connection elements for pipeline systems. Information

Provided by Kazanorgsintez

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kazanorgsintez-PE2NT-11-9-High-Density-Polyethylene-Composite.php

Physical Properties	Metric	English	Comments
Density	0.954 - 0.960 g/cc	0.0345 - 0.0347 lb/in ³	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.956 - 0.962 g/cc	0.0345 - 0.0348 lb/in ³	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Volatiles	<= 0.035 %	<= 0.035 %	
Environmental Stress Crack Resistance	>= 20 hour	>= 20 hour	with initial wall stress 2 MPa (on pipe samples d32 mm SDR 11)
	@Temperature 80.0 °C	@Temperature 176 °F	
	>= 165 hour	>= 165 hour	with initial wall stress 4.6 MPa (on pipe samples d110 mm SDR 11)
	@Temperature 80.0 °C	@Temperature 176 °F	
	>= 500 hour	>= 500 hour	with initial wall stress 4.6 MPa (on pipe samples d160 mm SDR 11)
	@Temperature 80.0 °C	@Temperature 176 °F	
Carbon Black Loading	2.0 - 2.5 %	2.0 - 2.5 %	
Melt Flow	0.029 - 0.070 g/10 min	0.029 - 0.070 g/10 min	±10%
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	0.10 g/10 min	0.10 g/10 min	
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	5.0 - 7.0 g/10 min	5.0 - 7.0 g/10 min	
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 21.0 MPa	>= 3050 psi	
Elongation at Break	>= 500 %	>= 500 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 Â°C	392 Â°F	
	@Time >=1200 sec	@Time >=0.333 hour	

Descriptive Properties	Value	Comments
Carbon Black Distribution Type	I-II	
Stability at Constant Internal Pressure 20Â°C; hr	2500	with initial wall stress 11.6 MPa

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