

## Kazanorgsintez PE2NT 11-285 High Density Polyethylene Composite

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

**Material Notes:**

Production Method: Copolymerization of ethylene at low pressure pipes and connection elements for pipeline phase method. Application: Composition is intended to be processed into pressure pipes and connection elements for pipeline systems, and high-strength thick films with thickness of 20 microns and higher. Information Provided by Kazanorgsintez

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kazanorgsintez-PE2NT-11-285-High-Density-Polyethylene-Composite.php](http://www.lookpolymers.com/polymer_Kazanorgsintez-PE2NT-11-285-High-Density-Polyethylene-Composite.php)

Physical Properties	Metric	English	Comments
Density	0.947 - 0.950 g/cc	0.0342 - 0.0343 lb/in <sup>3</sup>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.949 - 0.952 g/cc	0.0343 - 0.0344 lb/in <sup>3</sup>	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Volatiles	<= 0.035 %	<= 0.035 %	
Melt Flow	5.0 - 9.0 g/10 min	5.0 - 9.0 g/10 min	
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	±10%

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 20.0 MPa	>= 2900 psi	
Elongation at Break	>= 600 %	>= 600 %	

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

Descriptive Properties	Value	Comments
Stability at Constant Internal Pressure 20°C; hr	2500	with initial wall stress 11.6 MPa
Stability at Constant Internal Pressure 80°C, initial wall stress 2.8 MPa, hr	1000	
Stability at Constant Internal Pressure 80°C; initial wall stress 4.0 MPa, hr	165	

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