

Kazanorgsintez PE80B-275 Medium Density Polyethylene Composite

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE

Material Notes:

Production Method: Copolymerization of ethylene at low pressure using advanced technology and in presence of complex catalysts on carrier material that allows production of polyethylene with enhanced resistance to thermal and photooxidative degradation while processing and in use. Application: Compositions are intended for processing into pipes and connection elements of gas distribution systems and pressure pipes and elements for portable cold water systems. Information Provided by Kazanorgsintez

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kazanorgsintez-PE80B-275-Medium-Density-Polyethylene-Composite.php

Physical Properties	Metric	English	Comments
Density	0.943 - 0.951 g/cc	0.0341 - 0.0344 lb/in ³	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.945 - 0.953 g/cc	0.0341 - 0.0344 lb/in ³	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Volatiles	<= 0.035 %	<= 0.035 %	
Environmental Stress Crack Resistance	>= 20 hour	>= 20 hour	Gas component resistance with initial wall stress 2 MPa
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
	>= 165 hour	>= 165 hour	Slow propagation crack resistance, with initial wall stress 4 MPa
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Carbon Black Loading	2.0 - 2.5 %	2.0 - 2.5 %	
Melt Flow	0.35 - 0.70 g/10 min	0.35 - 0.70 g/10 min	Â±10%
	@Load 5.00 kg, Temperature 190 Â°C	@Load 11.0 lb, Temperature 374 Â°F	
	6.5 - 16 g/10 min	6.5 - 16 g/10 min	
	@Load 21.6 kg, Temperature 190 Â°C	@Load 47.6 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 17.0 MPa	>= 2470 psi	
Elongation at Break	>= 700 %	>= 700 %	

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

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