

Spartech PE4312 Reinforced High Density Polyethylene Compound

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

Material Notes:

Spartech Polycom's filled high molecular weight, high density polyethylenes are specifically designed for blow molding and sheet extrusion /thermoforming of structural parts. These materials offer an excellent balance of stiffness, impact resistance and dimensional stability.

Typical applications for blow molding grades include automotive seat cores, heating ducts, and recreational products such as ice chests. Information provided by Spartech

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-PE4312-Reinforced-High-Density-Polyethylene-Compound.php

Physical Properties	Metric	English	Comments	
Specific Gravity	1.04 g/cc	1.04 g/cc		
	@Temperature 22.8 °C	@Temperature 73.0 °F	ASTM D792	
Filler Content	12 %	12 %	Mica	
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	0.125inch wall	

Mechanical Properties	Metric	English	Comments	
Tensile Strength, Yield	30.3 MPa	4400 psi	ASTM D638	
Elongation at Break	20 %	20 %	ASTM D638	
Elongation at Yield	8.0 %	8.0 %	ASTM D638	
Flexural Strength	40.0 MPa	5800 psi	Max Load; ASTM D790	
Flexural Modulus	1.10 GPa	160 ksi	secant; ASTM D790	
	1.52 GPa	220 ksi	tangent; ASTM D790	
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256	
	@Temperature 22.8 °C	@Temperature 73.0 °F		
Gardner Impact	10.8 J	8.00 ft-lb	ASTM D5420	
	@Temperature -5.56 °C	@Temperature 22.0 °F		
	>= 33.9 J	>= 25.0 ft-lb		
	@Temperature 22.8 °C	@Temperature 73.0 °F	ASTM D5420	

Thermal Properties Metric	English	Comments	
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Thermal Properties	Metric C	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	43.3 °C	110 °F	ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

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