

Spartech PE4325 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-PE4325-Reinforced-High-Density-Polyethylene-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Filler Content	25 %	25 %	Mica
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	0.125inch wall

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Strength	44.8 MPa	6500 psi	Max Load; ASTM D790
Flexural Modulus	1.52 GPa	220 ksi	secant; ASTM D790
	2.00 GPa	290 ksi	tangent; ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	ASTM D256
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Gardner Impact	5.42 J	4.00 ft-lb	ASTM D5420
	@Temperature -5.56 Å°C	@Temperature 22.0 Å°F	
	>= 33.9 J	>= 25.0 ft-lb	ASTM D5420
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	

Thermal Properties	Metric	English	Comments
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Thermal Properties <small>Deflection Temperature at 0.46 MPa (66 psi)</small>	Metric C	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	51.7 Â°C	125 Â°F	ASTM D648

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