

Spartech PE4125 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-PE4125-Reinforced-High-Density-Polyethylene-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc @Temperature 22.8 Â°C	1.15 g/cc @Temperature 73.0 Â°F	ASTM D792
Filler Content	25 %	25 %	Talc
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	0.125inch wall

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Strength	41.4 MPa	6000 psi	Max Load; ASTM D790
Flexural Modulus	1.38 GPa	200 ksi	secant; ASTM D790
	1.86 GPa	270 ksi	tangent; ASTM D790
Izod Impact, Notched	2.14 J/cm @Temperature 22.8 Â°C	4.00 ft-lb/in @Temperature 73.0 Â°F	ASTM D256
Gardner Impact	9.49 J @Temperature -5.56 Â°C	7.00 ft-lb @Temperature 22.0 Â°F	ASTM D5420
	>= 33.9 J @Temperature 22.8 Â°C	>= 25.0 ft-lb @Temperature 73.0 Â°F	ASTM D5420

Thermal Properties	Metric	English	Comments
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Thermal Properties Deflection Temperature at 0.46 MPa (66 psi)	Metric °C	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	48.9 °C	120 °F	ASTM D648

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