

Spartech EP6430 Filled and Reinforced Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

Material Notes:

Filled copolymers offer a higher level of impact performance than homopolymer materials, and higher stiffness than unfilled copolymers. Copolymer based materials retain much of their impact strength at low temperatures. Typical applications include thermoformed frozen food containers, extruded and blow molded automotive and construction materials, and blow molded recreational equipment. Information provided by Spartech

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-EP6430-Filled-and-Reinforced-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Filler Content	30 %	30 %	
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	0.125inch wall

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Modulus	4.14 GPa	600 ksi	secant; ASTM D790
	5.86 GPa	850 ksi	tangent; ASTM D790
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Gardner Impact	2.71 J	2.00 ft-lb	ASTM D5420
	@Temperature -5.56 °C	@Temperature 22.0 °F	
	13.6 J	10.0 ft-lb	ASTM D5420
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	157 °C	315 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	ASTM D648

Optical Properties	Metric	English	Comments
Gloss	<= 50 %	<= 50 %	60°; ASTM D523

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