

Spartech EP5140 Talc Filled Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Talc Filler

Material Notes:

Provides the highest level of stiffness and heat resistance of filled olefins. Talc filled grades offer the highest strength properties. Typical applications include extrusion/thermoformed food containers, and profile extruded and blown molded structural parts. Information provided by Spartech

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-EP5140-Talc-Filled-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Filler Content	40 %	40 %	
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 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	3.0 %	3.0 %	ASTM D638
Flexural Modulus	2.48 GPa	360 ksi	secant; ASTM D790
	3.72 GPa	540 ksi	tangent; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Gardner Impact	1.36 J	1.00 ft-lb	ASTM D5420
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
	>= 1.36 J	>= 1.00 ft-lb	ASTM D5420
	@Temperature -5.56 Å°C	@Temperature 22.0 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 Å°C	280 Å°F	ASTM D648

Deflection Temperature at 1.8 MPa Thermal Properties (100 psi)	79.4 °C Metric	175 °F English	ASTM D648 Comments
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Optical Properties	Metric	English	Comments
Gloss	40 %	40 %	60°; ASTM D523

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China