

Spartech PP5140 Talc Filled Homopolymer

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

Material Notes:

Offers an excellent balance of processing improvement and high levels of stiffness and heat deflection temperature. Information provided by Spartech

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-PP5140-Talc-Filled-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
	@Temperature 22.8 Â°C	@Temperature 73.0 Â°F	
Filler Content	40 %	40 %	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	0.125inch wall
	0.012 cm/cm	0.012 in/in	4.0" disk; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Flexural Modulus	2.41 GPa	350 ksi	secant; ASTM D790
	3.17 GPa	460 ksi	tangent; ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256
	@Temperature 22.8 Â°C	@Temperature 73.0 Â°F	
Gardner Impact	>= 1.36 J	>= 1.00 ft-lb	ASTM D5420
	@Temperature 22.8 Â°C	@Temperature 73.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	172 Âµm/m-Â°C	95.6 Âµin/in-Â°F	ASTM E831
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	135 Â°C	275 Â°F	ASTM D648

Thermal Properties	Metric	English	Comments
Vicat Softening Point	84.0 Â°C	183 Â°F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	20 %	20 %	60Â°; ASTM D523

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.8	4.8	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Drying Temperature	82.0 - 104 Â°C	180 - 219 Â°F	
Dry Time	4 - 6 hour	4 - 6 hour	to moisture < 0.01%

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