

Spartech DP5120 Talc Filled Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% 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-DP5120-Talc-Filled-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Filler Content	20 %	20 %	
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	0.125inch wall

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.2 MPa	5100 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Modulus	1.93 GPa	280 ksi	secant; ASTM D790
	2.62 GPa	380 ksi	tangent; ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 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 -5.56 Å°C	@Temperature 22.0 Å°F	
	2.03 J	1.50 ft-lb	ASTM D5420
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	121 Å°C	250 Å°F	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (104 psi)	65.6 Å°C	150 Å°F	ASTM D648

Optical Properties	Metric	English	Comments
Gloss	47 %	47 %	60Å°; ASTM D523

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