

Spartech EP5220 Calcium Carbonate Filled Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Calcium Carbonate (CaCO3) Filler

Material Notes:

Provides the highest level of stiffness and heat resistance of filled olefins. Calcium Carbonate filled grades offer an excellent balance of stiffness and impact resistance. 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-EP5220-Calcium-Carbonate-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	0.015 cm/cm	0.015 in/in	0.125inch wall

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.3 MPa	4400 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Modulus	1.59 GPa	230 ksi	secant; ASTM D790
	2.00 GPa	290 ksi	tangent; ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	ASTM D256
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Gardner Impact	2.71 J	2.00 ft-lb	ASTM D5420
	@Temperature -5.56 Å°C	@Temperature 22.0 Å°F	
	19.0 J	14.0 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)	98.9 Å°C	210 Å°F	ASTM D648

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	54.4 Å°C Metric	130 Å°F English	ASTM D648 Comments
Optical Properties	Metric	English	Comments
Gloss	75 %	75 %	60Å°; ASTM D523

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