

Inno-Comp INNOPOL[®] CS 1-2120 AP 20% Talc Filled Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Talc Filler

Material Notes:

INNOPOL CS 1-2120 AP is a 20 % talc filled compound based on polypropylene homopolymer. This grade is available in natural and custom colored form. INNOPOL[®] CS 1-2120 AP is recommended especially for producing products, where high strength, low warpage, long term heat stability and excellent processability are required. Information provided by INNO-COMP

Order this product through the following link:

http://www.lookpolymers.com/polymer_Inno-Comp-INNOPOL-CS-1-2120-AP-20-Talc-Filled-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 230 °C	18 g/10 min @Load 4.76 lb, Temperature 446 °F	nozzle diam 2.095 mm; ISO 1133
Storage Temperature	<= 60.0 °C	<= 140 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	34.0 MPa	4930 psi	50 mm/min; ISO 527-1,-2
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527-1,-2
Flexural Modulus	2.70 GPa	392 ksi	ISO 178
Charpy Impact Unnotched	2.00 J/cm ² @Temperature 0.000 °C	9.52 ft-lb/in ² @Temperature 32.0 °F	ISO 179/1eU
	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.160 J/cm ² @Temperature 0.000 °C	0.761 ft-lb/in ² @Temperature 32.0 °F	ISO 179/1eA
	0.260 J/cm ² @Temperature 23.0 °C	1.24 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	125 Å°C	257 Å°F	ISO 75-1,-2
Vicat Softening Point	96.0 Å°C	205 Å°F	B120; ISO 306
	153 Å°C	307 Å°F	A120; ISO 306

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 240 Å°C	374 - 464 Å°F	Injection
Middle Barrel Temperature	190 - 240 Å°C	374 - 464 Å°F	Injection
Front Barrel Temperature	190 - 240 Å°C	374 - 464 Å°F	Injection
Melt Temperature	210 - 250 Å°C	410 - 482 Å°F	Injection
Mold Temperature	15.0 - 50.0 Å°C	59.0 - 122 Å°F	
Moisture Content	<= 0.070 %	<= 0.070 %	

Descriptive Properties	Value	Comments
Resin Designation	PP-H TD 20	ISO 1043

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