

CTC SunPro® SP 200 P 5000 Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

SunPro® SP 200 P 5000 is a general purpose, medium flow, polypropylene copolymer. It has applications in automotive wheel housings and general purpose automotive. Automotive Certifications: MS DB500, CPN 4492 Data provided by Composite Technologies (CTC).

Order this product through the following link:

http://www.lookpolymers.com/polymer_CTC-SunPro-SP-200-P-5000-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	24Hr; ISO 294 3/4
Linear Mold Shrinkage, Transverse	0.0153 cm/cm	0.0153 in/in	24Hr; ISO 294 3/4
Melt Flow	15 - 25 g/10 min	15 - 25 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527-1/2
Flexural Modulus	0.750 GPa	109 ksi	0.05 in/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	Low Temp; ISO 180/1eA

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	182 - 216 °C	360 - 420 °F	
Middle Barrel Temperature	193 - 227 °C	380 - 440 °F	
Front Barrel Temperature	204 - 216 °C	400 - 420 °F	
Nozzle Temperature	204 - 216 °C	400 - 420 °F	
Melt Temperature	204 - 227 °C	400 - 440 °F	
Mold Temperature	26.7 - 60.0 °C	80.0 - 140 °F	
Back Pressure	0.345 - 1.03 MPa	50.0 - 150 psi	
Clamp Pressure	27.6 - 34.5 MPa	4000 - 5000 psi	

Descriptive Properties	Value	Comments
Boost Pressure (psi)	500-1500	
Hold Pressure	50 - 75% of Boost	
Screw Speed	Medium to Fast	

Descriptive Properties	Value	Comments
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