

CTC X-PRO TF 1120 HP Polypropylene Homopolymer, 20% Talc Filled

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

Material Notes:

X-PRO TF 1120 HP is a 20% talc reinforced polypropylene homopolymer, heat stabilized, and made of 98% recycled content. It has applications in: automotive under hood, IP components, fan and lighting shrouds, HVAC components, lawn & garden, pipe fittings, and appliances. Data provided by Composite Technologies (CTC).

Order this product through the following link:

http://www.lookpolymers.com/polymer_CTC-X-PRO-TF-1120-HP-Polypropylene-Homopolymer-20-Talc-Filled.php

Physical Properties	Metric	English	Comments
Melt Flow	20 g/10 min	20 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	ISO 527-1/2
Flexural Modulus	2.50 GPa	363 ksi	0.05 in/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	Low Temp; ISO 180/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	245 °F	ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	65.6 °C	150 °F	ASTM-D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	204 - 216 °C	400 - 420 °F	
Middle Barrel Temperature	216 - 227 °C	420 - 440 °F	
Front Barrel Temperature	227 - 238 °C	440 - 460 °F	
Melt Temperature	227 - 238 °C	440 - 460 °F	
Mold Temperature	26.7 - 60.0 °C	80.0 - 140 °F	
Back Pressure	0.689 - 1.03 MPa	100 - 150 psi	
Clamp Pressure	27.6 - 34.5 MPa	4000 - 5000 psi	

Descriptive Properties	Value	Comments
Boost Pressure (psi)	750-1500	

Hold Pressure Descriptive Properties	50 - 75% of Boost Value	Comments
Screw Speed	Fast	

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