

Oxford Polymers ABS 20CCF-MP-BK ABS, 20% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Carbon Fiber Filled

Material Notes:

Conductive Carbon Fiber (20% Reinforced), ABS injection molding grade Processing and Delivery Form: Pellets and extrusion/Injection

Molding Additives: Release Agents Information provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-ABS-20CCF-MP-BK-ABS-20-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Ash	20.0 %	20.0 %	ASTM 5630B

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ASTM D638
Elongation at Break	2.00 %	2.00 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 3.17 mm	1.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 100 ohm-cm	<= 100 ohm-cm	conductive

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	188 - 210 °C	370 - 410 °F	
Middle Barrel Temperature	204 - 227 °C	400 - 440 °F	
Front Barrel Temperature	216 - 238 °C	420 - 460 °F	
Nozzle Temperature	218 - 260 °C	425 - 500 °F	
Melt Temperature	218 - 249 °C	425 - 480 °F	

Mold Temperature Processing Properties	48.9 - 71.1 °C Metric	120 - 160 °F English	Comments
Drying Temperature	82.2 °C	180 °F	
Dry Time	2.00 hour	2.00 hour	

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