

Qualchem Danamid FCF-20 Polyamide 6, 20% Carbon Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Reinforced with carbon fiber, antistatic and conductive. Information provided by Qualchem Zrt.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Qualchem-Danamid-FCF-20-Polyamide-6-20-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	DIN 53479
Filler Content	20 %	20 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	174 MPa	25200 psi	50 mm/min; ISO 527-1,2
Elongation at Break	3.0 %	3.0 %	ISO 527-1,2
Tensile Modulus	20.3 GPa	2940 ksi	ISO 527-1,2
Flexural Modulus	10.0 GPa	1450 ksi	DIN 53452
Charpy Impact Unnotched	3.30 J/cm ² @Temperature 23.0 °C	15.7 ft-lb/in ² @Temperature 73.4 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	193 °C	379 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	193 °C	379 °F	DIN 53461
Flammability, UL94	HB @Thickness 4.00 mm	HB @Thickness 0.157 in	MSZ 10383

Electrical Properties	Metric	English	Comments
Volume Resistivity	20000 ohm-cm	20000 ohm-cm	DIN 53482

Processing Properties	Metric	English	Comments
Moisture Content	2.0 - 2.2 %	2.0 - 2.2 %	DIN 53714

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