

Nycal™ 2050CF40

Polyamide 612
Technical Polymers, LLC

Message:

Nycal™2050CF40 is a polyamide 612 (nylon 6/12) material, which contains a 40% carbon fiber reinforced material. This product is available in North America and is processed by injection molding. Nycal™The main characteristics of 2050CF40 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	224	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus (23°C)	22100	MPa	ASTM D790
Flexural Strength (23°C)	338	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	213	°C	ASTM D648
Melting Temperature	218	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			
Tensile Elongation, ASTM D638: 1 to 3%Volum Resistivity, ASTM D257: <1e2 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	73.9 - 79.4	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	260 - 304	°C	
Mold Temperature	65.6 - 98.9	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.103 - 0.689	MPa	
Screw Speed	50 - 100	rpm	
Clamp Tonnage	3.4 - 5.5	kN/cm ²	
Cushion	3.18 - 12.7	mm	

Screw L/D Ratio	20.0:1.0
Screw Compression Ratio	2.5:1.0

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