

Nycal™ 1850R45

Polyamide 6
Technical Polymers, LLC

Message:

Nycal™ 1850R45 is a Polyamide 6 (Nylon 6) material filled with 45% glass fiber. It is available in North America for injection molding. Primary attribute of Nycal™ 1850R45: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	215	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0 to 3.0	%	ISO 527-2
Flexural Modulus (23°C)	11500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	14	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	65.0 to 90.0	°C	

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Recommended distributors for this material

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