

Celstran® TPU-CF40-01

Thermoplastic Polyurethane Elastomer

Celanese Corporation

Message:

40% long carbon fiber reinforced Thermoplastic Polyurethane

General Information			
Filler / Reinforcement	Long carbon fiber, 40% filler by weight		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	27600	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	285	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.4	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	25000	MPa	ISO 178
Flexural Stress (23°C)	420	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eA
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Hopper Temperature	70.0 - 80.0	°C	
Rear Temperature	240 - 250	°C	
Middle Temperature	245 - 255	°C	
Front Temperature	245 - 260	°C	
Nozzle Temperature	245 - 260	°C	
Processing (Melt) Temp	245 - 260	°C	
Mold Temperature	70.0 - 90.0	°C	
Injection instructions			

Manifold Temperature: 250 to 260°CZone 4 Temperature: 245 to 260°CFeed Temperature: 20 to 50°C

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Recommended distributors for this material

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