

Celstran® TPU-GF50-01

Thermoplastic Polyurethane Elastomer

Celanese Corporation

Message:

50% long strand fiber glass reinforced thermoplastic polyurethane

General Information			
UL YellowCard	E113269-237809		
Filler / Reinforcement	Long glass fiber, 50% filler by weight		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.050 - 0.10	%	ASTM D955
Transverse flow	0.050 - 0.10	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	15000	MPa	ASTM D638
--	15100	MPa	ISO 527-2/1A/1
Tensile Strength			
Fracture, 23°C	248	MPa	ASTM D638
Fracture	230	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, 23°C	2.1	%	ASTM D638
Fracture	2.1	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	14000	MPa	ISO 178
Flexural Stress (23°C)	375	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	54	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	96.1	°C	ASTM D648
1.8 MPa, not annealed	96.0	°C	ISO 75-2/A
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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