

Isoplast® 101 LGF 40 ETPU

Engineering Thermoplastic Polyurethane

Lubrizol Advanced Materials, Inc.

Message:

Type: Isoplast® 101 LGF 40 Natural is an engineering thermoplastic polyurethane resin.

General Information			
Filler / Reinforcement	Long Glass Fiber,40% Filler by Weight		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	186	MPa	
Break	186	MPa	
Tensile Elongation			ASTM D638
Yield	2.0	%	
Break	2.0	%	
Flexural Modulus	10000	MPa	ASTM D790
Flexural Strength	310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.20 mm	430	J/m	
23°C, 3.20 mm	430	J/m	
Instrumented Dart Impact			ASTM D3763
-29°C	17.0	J	
23°C	31.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	93.0	°C	
1.8 MPa, Annealed	99.0	°C	
Vicat Softening Temperature	186	°C	ASTM D1525
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	65.0 to 90.0	°C	

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Recommended distributors for this material

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