



Isoplast® 202 LGF40 ETP

Lubrizol Advanced Materials, Inc. - Engineering Thermoplastic Polyurethane

Wednesday, November 6, 2019

General Information

Product Description

Type: Isoplast® 202 LGF 40 is an engineering thermoplastic polyurethane resin.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • North America
Filler / Reinforcement	• Long Glass Fiber, 40% Filler by Weight
Forms	• Pellets

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.74E+6	psi	ASTM D638
Tensile Strength (Yield)	27000	psi	ASTM D638
Tensile Strength (Break)	27000	psi	ASTM D638
Tensile Elongation (Yield)	1.8	%	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	1.45E+6	psi	ASTM D790
Flexural Strength	49000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.126 in)	5.0	ft-lb/in	ASTM D256
Instrumented Dart Impact			ASTM D3763
-20°F	124	in-lb	
73°F	150	in-lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	331	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	291	°F	
Glass Transition Temperature	280	°F	ASTM D3418
CLTE - Flow	3.9E-6	in/in/°F	ASTM D696

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 212	°F
Processing (Melt) Temp	464 to 500	°F

Notes

¹ Typical properties: these are not to be construed as specifications.