

Technical Data Sheet

Type: Isoplast® 202 LGF40 is an engineering thermoplastic resin.

Typical Properties	Test Method	English		S.I.	
		Values*	Units	Values*	Units
Physical					_
Mold Shrinkage	ASTM D 955	0.001	In/in	0.001	mm/mm
Water Absorption, 24 hours at 73°F (23°C)	ASTM D 570	-	%	-	%
Specific Gravity	ASTM D 792	1.50		1.50	
Mechanical					
Tensile Strength at Yield	ASTM D 638	27,000	psi	69	MPa
Tensile Strength at Break	ASTM D 638	27,000	psi	63	MPa
Elongation at Yield	ASTM D 638	1.8	%	7	%
Elongation at Break	ASTM D 638	1.8	%	140	%
Tensile Modulus	ASTM D 638	1,700,000	psi	1,200	MPa
Flexural Strength	ASTM D 790	49,000	psi	338	MPa
Flexural Modulus	ASTM D 790	5,500,000	psi	10,000	MPa
Izod Impact Strength - Notched, 1/8" (3.2 mm), 73°F (23°C) - Notched, 1/8" (3.2 mm), -40°F (-40°C)	ASTM D 256	5 -	ft-lb/in ft-lb/in	267 -	J/m J/m
Instrumented Dart Impact - Total Energy at 73°F (23°C) - Total Energy at -20°F (-29°)	ASTM D 3763	150 120	In-lb In-lb	17 14	J J
Thermal					
Deflection Temperature Under Load - 66 psi (0.45 MPa), unannealed - 66 psi (0.45 MPa), annealed - 264 psi (1.8 MPa), unannealed - 264 psi (1.8 MPa), annealed	ASTM D 648	330 - 290 -	°F °F °F	166 - 144 -	ວໍດ ວໍດ
Vicat Temperature	ASTM D 1525	-	°F	-	°C
Coefficient of Linear Thermal Expansion	ASTM D 696	0.4	10⁻⁵ in/in/°F	0.7	10 ⁻⁵ mm/mm/°C
Glass Transition Temperature	ASTM D 3418	280	°F	138	°C
Processing Information		-		•	•
Recommended Drying Temperature		260-280	°F	127-138	°C
Recommended Melt Temperature		450-500	°F	232-260	°C
Recommended Mold Temperature		200-250	°F	93-121	°C

^{*}Typical values, not to be construed as specifications. Users should confirm results by their own tests.

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⁽¹⁾ Under no circumstances should glass reinforced resins be heated above 500°F (260°C) during molding or purging. This might cause decomposition, leaving a glass-enriched melt, which cannot be extruded, and therefore could seize the screw.