

Polymer Resources



Classic® Engineering Plastic Compounds

Wednesday, August 30, 2023

PRL TP-IM-G30

Polymer Resources Ltd. - Polybutylene Terephthalate

Units

Action

Legend 

General Information

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Additive	• Impact Modifier	
Features	<ul style="list-style-type: none"> • Good Impact Resistance • High Heat Resistance • Impact Modified • Medium Impact Resistance 	
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.52		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.0 to 18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	16500	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	16500	psi	ASTM D638
Flexural Modulus (0.125 in)	1.00E+6	psi	ASTM D790
Flexural Strength (Break, 0.125 in)	25000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	430	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	400	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	240 to 250	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F
Processing (Melt) Temp	450 to 500	°F
Mold Temperature	150 to 190	°F

Notes

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

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