



Wednesday, August 30, 2023

PRL TP-IG30

Polymer Resources Ltd. - Polybutylene Terephthalate

Units English ▼

Action	Legend (Open)
 	

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• High Heat Resistance • Low Warpage
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.0 to 15	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)	16000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	16000	psi	ASTM D638
Flexural Modulus (0.125 in)	1.00E+6	psi	ASTM D790
Flexural Strength (Break, 0.125 in)	27000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	415	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	340	°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	160 to 190	°F

Notes

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

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