

PRL TP-HG40**Polymer Resources Ltd. - Polybutylene Terephthalate**Units English **Action****Legend (Open)****General Information****General**

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 40% Filler by Weight
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

ASTM & ISO Properties ¹

	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.64		ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	25 to 35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3	in/in	ASTM D955
	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	20000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	20000	psi	ASTM D638
Flexural Modulus (0.125 in)	1.50E+6	psi	ASTM D790
Flexural Strength (0.125 in)	24000	psi	ASTM D790
	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.5	ft-lb/in	ASTM D256
	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	420	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	380	°F	ASTM D648

Processing Information

	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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