

PRL TP-FR-G15Units **Polymer Resources Ltd. - Polybutylene Terephthalate****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, 15% Filler by Weight 		
Additive	<ul style="list-style-type: none"> Flame Retardant 		
Features	<ul style="list-style-type: none"> Flame Retardant High Heat Resistance Self Extinguishing 		
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant 		
UL File Number	<ul style="list-style-type: none"> E113219 		
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
Physical			
Density / Specific Gravity	1.54		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	10 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 9.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield, 0.125 in)	13500	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	13500	psi	ASTM D638
Flexural Modulus (0.125 in)	725000	psi	ASTM D790
Flexural Strength (Break, 0.125 in)	21000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	400	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	345	°F	ASTM D648
RTI Elec			UL 746B
0.03 in	266	°F	
0.06 in	266	°F	
0.12 in	266	°F	
RTI Imp			UL 746B
0.06 in	248	°F	
0.12 in	248	°F	
RTI Str			UL 746B
0.03 in	266	°F	
0.06 in	266	°F	
0.12 in	266	°F	
Electrical			
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (0.0335 in)	580	V/mil	ASTM D149
Arc Resistance (0.0335 in)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (0.0335 in)	PLC 2		UL 746A
High Amp Arc Ignition (HAI)			UL 746A
0.03 in	PLC 0		
0.06 in	PLC 0		
0.12 in	PLC 0		
High Voltage Arc Tracking Rate (HVTR) (0.0335 in)	PLC 3		UL 746A
Hot-wire Ignition (HWI)			UL 746A

0.03 in

0.06 in

0.12 in

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 +188-1699-6168 (ShangHai)
 +852-6957-5415 (HongKong)

Polybutylene Terephthalate

PLC 4

PLC 3

PLC 2

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.03 in		V-0	
0.12 in	•	V-0	
	•	5VA	

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	475 to 525	°F
Mold Temperature	160 to 190	°F

Notes

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

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