

PRL TP-FR-IM2

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-FR-IM2 is a Polybutylene Terephthalate (PBT) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Flame Retardant
- Heat Resistant
- Impact Modified

General Information			
UL YellowCard	E113219-219236		
Additive	Flame Retardant		
	Impact Modifier		
Features	Flame Retardant		
	High Impact Resistance		
	Impact Modified		
	Medium Heat Resistance		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.0 to 1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	37.9	MPa	
Break, 3.18 mm	37.9	MPa	
Flexural Modulus (3.18 mm)	2100	MPa	ASTM D790
Flexural Strength (3.18 mm)	65.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	640	J/m	ASTM D256
Gardner Impact (3.18 mm)	36.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed, 3.18 mm	127	°C
1.8 MPa, Unannealed, 3.18 mm	118	°C
RTI Elec		UL 746
0.750 mm	75.0	°C
1.50 mm	75.0	°C
3.00 mm	75.0	°C
RTI Imp		UL 746
0.750 mm	75.0	°C
1.50 mm	75.0	°C
3.00 mm	75.0	°C
RTI Str		UL 746
0.750 mm	75.0	°C
1.50 mm	75.0	°C
3.00 mm	75.0	°C
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
0.750 mm	V-0	
1.50 mm	V-0	
3.00 mm	V-0	
3.00 mm	5VA	
Injection	Nominal Value	Unit
Drying Temperature	116 to 121	°C
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	238 to 254	°C
Middle Temperature	243 to 260	°C
Front Temperature	249 to 266	°C
Processing (Melt) Temp	246 to 274	°C
Mold Temperature	48.9 to 76.7	°C

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