

PRL TP-FR2

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-FR2 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

General Information			
UL YellowCard	E113219-219232		
Additive	Flame Retardant		
Features	Flame Retardant		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	10 to 18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.5 to 2.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	57.9	MPa	
Break, 3.18 mm	57.9	MPa	
Flexural Modulus (3.18 mm)	2590	MPa	ASTM D790
Flexural Strength (3.18 mm)	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	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	149	°C	
1.8 MPa, Unannealed, 3.18 mm	68.3	°C	
RTI Elec			UL 746
0.800 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	

RTI Imp			UL 746
0.800 mm	120	°C	
1.50 mm	120	°C	
3.00 mm	120	°C	
RTI Str			UL 746
0.800 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength (0.800 mm)	39	kV/mm	ASTM D149
Arc Resistance (0.800 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (0.800 mm)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.800 mm	PLC 0		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR) (0.800 mm)	PLC 3		UL 746
Hot-wire Ignition (HWI)			UL 746
0.800 mm	PLC 4		
1.50 mm	PLC 3		
3.00 mm	PLC 2		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm, ALL	V-0		
1.50 mm, ALL	V-0		
	V-0		
3.00 mm, ALL	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	232 to 249	°C	
Middle Temperature	238 to 254	°C	
Front Temperature	243 to 260	°C	
Processing (Melt) Temp	232 to 260	°C	
Mold Temperature	43.3 to 60.0	°C	

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