

Classic* Engineering Plastic Compounds

Monday, October 4, 2021

PRL TP-FR2			Units English 🕶
Polymer Resources Ltd Polyb	utylene Terephthalate		Legend (Open
Action			Legena (<u>Open</u>
	Conoral Inform	action	
Ossand	General Inform	lation	
General Material Status	Commercial: Active		
	North America		
Availability Additive	Flame Retardant		
Features	Flame Retardant	Self Extinguishing	
RoHS Compliance	RoHS Compliant	Sell Extiliguishing	
UL File Number	• E113219		
Forms	• Pellets		
Processing Method	Injection Molding		
Processing Method	•	1 1	
	ASTM & ISO Prop		
Physical Phy		Nominal Value Unit	Test Method
Density / Specific Gravity	101	1.39	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.	16 kg)	10 to 18 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)		0.015 to 0.020 in/in	ASTM D955
Mechanical		Nominal Value Unit	Test Method
Tensile Strength (Yield, 0.125 in)		8400 psi	ASTM D638
Tensile Strength (Break, 0.125 in)		8400 psi	ASTM D638
Flexural Modulus (0.125 in)		375000 psi	ASTM D790
Flexural Strength (0.125 in)		14000 psi	ASTM D790
Impact		Nominal Value Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)		1.0 ft·lb/in	ASTM D256
Gardner Impact (0.125 in)		320 in·lb	ASTM D3029
Thermal		Nominal Value Unit	Test Method
Deflection Temperature Under Load (66	• • • • • • • • • • • • • • • • • • • •	300 °F	ASTM D648
Deflection Temperature Under Load (26	54 psi, Unannealed, 0.125 in)	155 °F	ASTM D648
RTI Elec			UL 746B
0.031 in		266 °F	
0.06 in		266 °F	
0.12 in		266 °F	=
RTI Imp		2.2.2=	UL 746B
0.031 in		248 °F	
0.06 in		248 °F	
0.12 in		248 °F	=
RTI Str			UL 746B
0.031 in		266 °F	
0.06 in		266 °F	
0.12 in		266 °F	
Electrical		Nominal Value Unit	Test Method
Volume Resistivity		1.0E+16 ohms·cm	ASTM D257
Dielectric Strength (0.0315 in)		990 V/mil	ASTM D405
Arc Resistance (0.0315 in)	04 <i>E</i> in \	PLC 6	ASTM D495
Comparative Tracking Index (CTI) (0.03	ວ ເວ ເກ)	PLC 2	UL 746A
High Amp Arc Ignition (HAI)		DI O O	UL 746A
0.03 in		PLC 0	
0.06 in		PLC 0	
0.12 in	\ (0.021E in)	PLC 0	111 7404
High Voltage Arc Tracking Rate (HVTR) (U.U3T5 IN)	PLC 3	UL 746A

Hot-wire Ignition (HWI)	UL 746A
0.03 in	PLC 4
0.06 in	PLC 3
0.12 in	PLC 2

Flammability	Nominal Value Unit Test Method
Flame Rating	UL 94
0.031 in, ALL	V-0
0.06 in, ALL	V-0
0.12 in, ALL	• V-0
U. 12 III, ALL	• 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	450 to 480 °F
Middle Temperature	460 to 490 °F
Front Temperature	470 to 500 °F
Processing (Melt) Temp	450 to 500 °F
Mold Temperature	110 to 140 °F
	Notes

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