

PRL PC/TP-FR2

Polycarbonate + Polyester

Polymer Resources Ltd.

Message:

PRL PC/TP-FR2 is a Polycarbonate + Polyester (PC+Polyester) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

RoHS Compliant

Flame Retardant

Impact Resistant

Chemical Resistant

General Information			
UL YellowCard	E113219-602703	E113219-101367888	
Additive	Flame Retardant		
	Impact Modifier		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Weather Resistance		
	Impact Modified		
	Low Temperature Impact Resistance		
	Self Extinguishing		
	Ultra High Impact Resistance		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	5.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	50.3	MPa	
Break, 3.18 mm	48.3	MPa	
Flexural Modulus (3.18 mm)	2000	MPa	ASTM D790
Flexural Strength (3.18 mm)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-40°C, 3.18 mm	370	J/m	
23°C, 3.18 mm	690	J/m	
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	90.6	°C	
1.8 MPa, Unannealed, 3.18 mm	82.2	°C	
RTI Elec (1.50 mm)	75.0	°C	UL 746
RTI Imp (1.50 mm)	75.0	°C	UL 746
RTI Str (1.50 mm)	75.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	104 to 110	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	249 to 271	°C	
Middle Temperature	254 to 277	°C	
Front Temperature	260 to 282	°C	
Processing (Melt) Temp	246 to 274	°C	
Mold Temperature	65.6 to 87.8	°C	

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