

PRL PC/TP-FR3

Polycarbonate + Polyester
Polymer Resources Ltd.

Message:

PRL PC/TP-FR3 is a Polycarbonate + Polyester (PC+Polyester) product. It can be processed by injection molding and is available in North America. Characteristics include:
RoHS Compliant
Flame Retardant
Impact Resistant
Chemical Resistant
Good Weather Resistance

General Information			
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		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	12 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.1 to 1.3	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	49.0	MPa	
Break, 3.18 mm	42.7	MPa	
Flexural Modulus (3.18 mm)	2070	MPa	ASTM D790
Flexural Strength (3.18 mm)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	590	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	98.9	°C
1.8 MPa, Unannealed, 3.18 mm	82.2	°C
Injection	Nominal Value	Unit
Drying Temperature	110 to 116	°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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