

PRL PC/ABS-FR2

Polycarbonate + ABS
Polymer Resources Ltd.

Message:

PRL PC/ABS-FR2 is a Polycarbonate + ABS (PC+ABS) product. It can be processed by injection molding and is available in North America. Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Halogen Free
High Flow

General Information			
UL YellowCard	E113219-219227		
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	High Flow		
	High Impact 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	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	40 to 60	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	60.7	MPa	
Break, 3.18 mm	55.2	MPa	
Flexural Modulus (3.18 mm)	2550	MPa	ASTM D790
Flexural Strength (3.18 mm)	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	530	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	85.0	°C	

1.8 MPa, Unannealed, 3.18 mm	79.4	°C	
RTI Elec			UL 746
1.50 mm	60.0	°C	
3.00 mm	60.0	°C	
RTI Imp			UL 746
1.50 mm	60.0	°C	
3.00 mm	60.0	°C	
RTI Str			UL 746
1.50 mm	60.0	°C	
3.00 mm	60.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	76.7 to 82.2	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	221 to 254	°C	
Middle Temperature	232 to 266	°C	
Front Temperature	243 to 277	°C	
Processing (Melt) Temp	246 to 274	°C	
Mold Temperature	60.0 to 82.2	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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