

PRL ABS-FR

Acrylonitrile Butadiene Styrene
Polymer Resources Ltd.

Message:

PRL ABS-FR is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in North America.
Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant

General Information			
UL YellowCard	E113219-219224		
Additive	Flame Retardant		
Features	Flame Retardant		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.0 to 16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.18 mm)	2280	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.18 mm	40.7	MPa	
Break, 3.18 mm	37.9	MPa	
Tensile Elongation			ASTM D638
Yield, 3.18 mm	2.2	%	
Break, 3.18 mm	10	%	
Flexural Modulus (3.18 mm)	2380	MPa	ASTM D790
Flexural Strength (3.18 mm)	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	19	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	210	J/m	ASTM D256
-30°C	6.3	kJ/m ²	ISO 180/1A
23°C	19	kJ/m ²	ISO 180/1A

Gardner Impact (3.18 mm)	16.9	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	87.8	°C	
1.8 MPa, Unannealed, 3.18 mm	82.2	°C	
Vicat Softening Temperature	90.6	°C	ASTM D1525 ¹
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	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm, ALL	V-0		
	V-0		
3.00 mm, ALL	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 93.3	°C	
Drying Time	2.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	171 to 182	°C	
Middle Temperature	199 to 210	°C	
Front Temperature	210 to 221	°C	
Processing (Melt) Temp	204 to 232	°C	
Mold Temperature	48.9 to 71.1	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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