

PRL ABS-FR-UV-(f2)

Acrylonitrile Butadiene Styrene

Polymer Resources Ltd.

Message:

PRL ABS-FR-UV-(f2) is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in North America. Typical application: Outdoor Applications. Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Good UV Resistance
UV Stabilized

General Information			
UL YellowCard	E113219-100995613		
Additive	Flame Retardant		
	UV Stabilizer		
Features	Flame Retardant		
	Good UV Resistance		
	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
Outdoor Suitability (All Colors)	f2		UL 746C
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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any

infringement occurs, please contact us immediately.

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

