

PRL ABS-GP1

Acrylonitrile Butadiene Styrene

Polymer Resources Ltd.

Message:

PRL ABS-GP1 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Impact Resistant

General Information			
UL YellowCard	E113219-219225		
Features	General Purpose		
	Medium Impact Resistance		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.0 to 14	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)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.18 mm)	2620	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.18 mm	48.3	MPa	
Break, 3.18 mm	41.4	MPa	
Tensile Elongation			ASTM D638
Yield, 3.18 mm	2.0	%	
Break, 3.18 mm	30	%	
Flexural Modulus (3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (3.18 mm)	64.1	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			
-40°C, 3.18 mm	53	J/m	ASTM D256
23°C, 3.18 mm	210	J/m	ASTM D256

-30°C	7.4	kJ/m ²	ISO 180/1A
23°C	16	kJ/m ²	ISO 180/1A
Gardner Impact (3.18 mm)	22.6	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	98.9	°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	HB		
3.00 mm, ALL	HB		
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 93.3	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	188 to 210	°C	
Middle Temperature	204 to 227	°C	
Front Temperature	216 to 238	°C	
Processing (Melt) Temp	218 to 260	°C	
Mold Temperature	48.9 to 71.1	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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