PRL PS-GP1

High Impact Polystyrene

Polymer Resources Ltd.

Message:

PRL PS-GP1 is a High Impact Polystyrene product. It can be processed by injection molding and is available in North America.
Characteristics include:
RoHS Compliant
Impact Resistant

General Information			
Features	General Purpose Medium Impact Resistance		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.03	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.50 to 5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.70	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	27.6	MPa	
Break, 3.18 mm	20.7	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)	41.4	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	160	J/m	ASTM D256
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	76.7	°C	
1.8 MPa, Unannealed, 3.18 mm	71.1	°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	65.6 to 82.2	°C	
Drying Time	2.0 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

Recommended distributors for this material

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