

PRL ASA-GP1

Acrylonitrile Styrene Acrylate

Polymer Resources Ltd.

Message:

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

Characteristics include:

RoHS Compliant

Good Weather Resistance

General Information			
Features	General Purpose		
	Good Weather Resistance		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.18 mm)	46.9	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 3.18 mm	6.0	%	
Break, 3.18 mm	25	%	
Flexural Modulus (3.18 mm)	2210	MPa	ASTM D790
Flexural Strength (3.18 mm)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	96.1	°C	
1.8 MPa, Unannealed, 6.40 mm	87.8	°C	
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

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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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