

PRL ABS-GP-IM

ABS

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	2	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Charpy notched impact strength, +23°C	28	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	28	kJ/m ²	ISO 180/1A
Izod notched impact strength	9	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	1930	MPa	ASTM D 638
Tensile Strength at Yield	37.9	MPa	ASTM D 638
Tensile Strength at Break	30.4	MPa	ASTM D 638
Elongation at Yield	2	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	1890	MPa	ASTM D 790
Flexural Strength	58.7	MPa	ASTM D 790
Izod Impact notched, 1/8 in	370	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	87.8	°C	ASTM D 648
DTUL @ 264 psi	82.2	°C	ASTM D 648
Vicat Temperature	98.9	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1020	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	82.2 - 93.3	°C	-
Pre-drying - Time	2 - 5	h	-
Melt temperature	232 - 274	°C	-
Mold temperature	48.9 - 82.2	°C	-
Zone 1	193 - 210	°C	-
Zone 2	216 - 238	°C	-
Zone 3	227 - 254	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Special Characteristics

High impact or impact modified

Applications

General Purpose

Regional Availability

North America