

PRL ABS-GP1-(color)-UV

ABS

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data	Value	Unit	Test Standard
Charpy notched impact strength, +23°C	18.9	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	16.4	kJ/m ²	ISO 180/1A
Izod notched impact strength	7.36	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	2620	MPa	ASTM D 638
Tensile Strength at Yield	48.3	MPa	ASTM D 638
Tensile Strength at Break	41.4	MPa	ASTM D 638
Elongation at Yield	2	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2413	MPa	ASTM D 790
Flexural Strength	64.1	MPa	ASTM D 790
Rockwell Hardness	R110	-	ASTM D 785
Izod Impact notched, 1/8 in	214	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	53.4	J/m	ASTM D 256
Temperature	-40	°C	-
Thermal properties			
ASTM Data	Value	Unit	Test Standard
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
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
Electrical properties			
ASTM Data	Value	Unit	Test Standard
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Other properties			
Value	Unit	Test Standard	
Density	1050	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	3 - 4	h	-
Melt temperature	218 - 260	°C	-
Mold temperature	48.9 - 71.1	°C	-
Zone 1	188 - 210	°C	-
Zone 2	204 - 227	°C	-
Zone 3	216 - 238	°C	-

Characteristics**Processing**

Injection Molding

Applications

General Purpose

Delivery form

Pellets

Regional Availability

North America

Special Characteristics

U.V. stabilized or stable to weather