

**PRL ABS-FR-UV-(f2)**

ABS

Polymer Resources, Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Charpy notched impact strength, +23°C	<b>18.9</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>18.9</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	<b>6.31</b>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	<b>-30</b>	°C	-

<b>ASTM Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile Modulus	<b>2275</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>40.7</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>37.9</b>	MPa	ASTM D 638
Elongation at Yield	<b>2.2</b>	%	ASTM D 638
Elongation at Break	<b>10</b>	%	ASTM D 638
Flexural Modulus	<b>2379</b>	MPa	ASTM D 790
Flexural Strength	<b>62.1</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R100</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>214</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
DTUL @ 66 psi	<b>87.8</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>82.2</b>	°C	ASTM D 648
Vicat Temperature	<b>90.6</b>	°C	ASTM D 1525

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Volume Resistivity	<b>&gt;1E15</b>	Ohm*cm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1220</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>82.2 - 93.3</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Melt temperature	<b>204 - 232</b>	°C	-
Mold temperature	<b>48.9 - 71.1</b>	°C	-
Zone 1	<b>171 - 182</b>	°C	-
Zone 2	<b>199 - 210</b>	°C	-
Zone 3	<b>210 - 221</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant, U.V. stabilized or stable to weather

**Regional Availability**

North America