

**Technical Data Sheet ( ASTM )**

**ABS(Acrylonitrile Butadiene Styrene)  
ABS 720R**

**Features** High rigidity  
**Applications** Automobile batteries

<b>Physical</b>	<b>Test Method</b>	<b>Value</b>
Density	ASTM D792	1.04 g/cm <sup>3</sup>
Melt Flow Index (220°C, 10kg)	ASTM D1238	20 g/10min
Melt Flow Index (200°C, 21.6kg)	ASTM D1238	30 g/10min
Mold Shrinkage	ASTM D955	0.5 ~ 0.8 %
Water absorption	ASTM D570	- %
<b>Mechanical</b>	<b>Test Method</b>	<b>Value</b>
Tensile Strength	ASTM D638	530 kgf/cm <sup>2</sup> (7,420) (psi)
Elongation	ASTM D638	15 %
Flexural Strength	ASTM D790	750 kgf/cm <sup>2</sup> (10,500) (psi)
Flexural Modulus	ASTM D790	27000 kgf/cm <sup>2</sup> (384,000) (psi)
Izod Impact Strength(3.2mm, 23°C)	ASTM D256	20 kgf-cm/cm (3.7) (ft-lb/in)
Izod Impact Strength(6.4mm, 23°C)	ASTM D256	15 kgf-cm/cm (2.8) (ft-lb/in)
Rockwell Hardness(R scale)	ASTM D785	113
<b>Thermal</b>	<b>Test Method</b>	<b>Value</b>
Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> )	ASTM D648	89 °C (192) (°F)
Vicat Softening Temperature(5kg, 50°C/h)	ASTM D1525	99 °C (210) (°F)
<b>Flammability</b>	<b>Test Method</b>	<b>Value</b>
Flame Rating - UL (1.6mm)	UL 94	HB

**Notes**

These are just typical properties, not specifications. Users should confirm results by their own test.