

ASTM Property | BEPL



BHANSALI ENGINEERING POLYMERS LIMITED

Resin Feature & Applications	Super High Impact - Paintable Helmets, Two Wheeler Parts
Resin Type	ABS

Property	Measuring Method	Condition	Unit	Value
Rheological				
Melt Flow Index	ASTM D 1238	at 220°C /10 kg	gm/10min	17
Mechanical				
Izod Impact Strength*, Notched	ASTM D-256	at 1/8" or 3.2mm and 23°C	Kgf.cm/cm	43
Izod Impact Strength*, Notched	ASTM D-256	at 1/4" or 6.4mm and 23°C	Kgf.cm/cm	34
Tensile Strength at Yield, Type I	ASTM D-638	50mm/min	Kgf/cm ²	445
Flexural Strength*	ASTM D-790	5 mm/min	Kgf/cm ²	550
Flexural Modulus*	ASTM D-790	5 mm/min	Kgf/cm ²	20000
Rockwell Hardness*	ASTM D-785	23°C	R-Scale	100
Thermal				
Heat Distortion Temperature, (Method A)	ASTM D-648	at 18.56 Kgf/cm ² (Annealed)	°C	94
Physical				
Specific Gravity	ASTM D 792	23°C	-	1.045
Other Properties				
Mould Shinkage**	ASTM D-995	-	%	0.4-0.6

Note:

The values above are representative values of natural product and not to be used for mould designs.

The values above are not to be construed as sales specifications and implies no legal binding effect.

All properties except melt flow index are measured on injection moulded specimens.

Properties marked* shall be reported, only if explicitly committed or contracted.

Properties marked ** are values typical of ABS and are provided here solely for customer convenience.

The values provided in this document may be changed due to quality improvement of the product without any prior notification.

Date, when last updated: 02/12/2021