## We Connect Science



# HI135

### **Description**

HI135 is an ABS product for injection molding, designed to have very high impact strength.

### **Key Features**

### **Application**

High Rubber Content, High Impact Strength

Safety helmets, Miscellaneous goods

Properties	Condition	Method	Unit	HI135
Physical				
Specific Gravity	23°C	ASTM D792		1.04
Mold Shrinkage	23°C, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220°C, 10kg	ASTM D1238	g/10min	6
Mechanical				
Tensile Strength at Yield	23°C, 50mm/min, 3.2mm	ASTM D638	MPa	41
Tensile Elongation at Break	23°C, 50mm/min, 3.2mm	ASTM D638	%, (Min)	10
Flexural Strength	23°C, 10mm/min, 6.4mm	ASTM D790	MPa	65
Flexural Modulus	23°C, 10mm/min, 6.4mm	ASTM D790	MPa	2100
Izod Impact Strength	Notched, 6.4mm, 23°C	ASTM D256	J/m	460
Rockwell Hardness	R-Scale	ASTM D785		100
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	°C	87
Vicat Softening Temperature	50N, 50°C/h	ASTM D1525	°C	95

#### Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors. Values given should not be interpreted as specification and not be used for designing part or tool.

All properties, except melt flow index are measured by injection molded specimens after 48 hours storage at 23°C, 50% relative humidity.

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### Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	°C	70 ~ 80
Drying Time	hrs	3 ~ 4
Injection Temperature	°C	200 ~ 250
Mold Temperature	°C	40 ~ 80
Screw Speed	rpm	30 ~ 60

#### **Note**

Injection Temperature & Drew Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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