

## **SH-0150 EXTRUSION GRADE ABS (Acrylonitrile – Butadiene – Styrene)**

### **1) Product Description:**

SH - 0150 ABS extrusion grade has been formulated to provide excellent mechanical properties, extrusion stability, vacuum formability and chemical resistance. It is a high flow extrusion grade with high impact strength at ambient temperature and considerable impact strength at low temperatures. This grade has a wide processing window.

**2) Applications:** SH - 0150 extrusion grade is mainly used for parts which need significant impact resistance. Since thin sheets can be vacuum – formed, it is an appropriate grade for general sheets.

### **3) Typical Data**

<b>PROPERTY</b>	<b>TEST METHOD</b>	<b>TEST CONDITION</b>	<b>UNIT</b>	<b>TYPICAL VALUE</b>
MFI	ASTM D 1238	(200°c/5kg)	Gr/10 min	1.1
Izod Impact Strength (notched)	ISO 180	1/8 inch	Kj / m <sup>2</sup>	28
Tensile Strength @ Yield	ASTM D 638	5mm/min	Kgf /cm <sup>2</sup>	450
Elongation @ Break	ASTM D 638	5mm/min	%	-
Flexural Strength @ Yield	ASTM D 790	2.8mm/min	Kgf /cm <sup>2</sup>	650
Flexural Modulus	ASTM D 790	2.8mm/min	Kgf /cm <sup>2</sup>	22500
Vicat Softening Temperature (unannealed)	ASTM D 1525	5kg	°C	101.0
Rockwell Hardness	ASTM D 785	-	R-Scale	106
Flammability	UL 94	1.5mm Specimen	Recognized	HB

\*Typical Values : not to be construed as specifications

Density of this grade is approximately 1.03 gr/cm<sup>3</sup>. Shrinkage of all ABS grades in mold is approximately 0.3 % ~ 0.6 % (ASTM D 955). All tests are carried out at 23 °C unless otherwise stated. The above data are typical laboratory average. They are intended to serve as guide only.

### **4) Processing Condition:**

Processing temperatures are recommended to be set at 180 °C - 200 °C for cylinder, 190 °C -220 °C for die and 80 °C -110 °C for roll. SH-0150 ABS can be processed under different conditions based on machinery available and articles molded. Avoid excessive melt temperatures and long residence time, as they may cause thermal degradation.

Producer: Tabriz Petrochemical Co.  
Licensor: SAMUNG  
Packing: 25 Kg plastic bag