

## SD-0150 GENERAL PURPOSE ABS (Acrylonitrile – Butadiene – Styrene)

### 1) Product Description:

General Purpose ABS, SD – 0150 grade, is a rigid thermoplastic with good processing characteristics. It is a high flow injection molding grade with considerable impact strength and medium heat deflection.

### 2) Applications:

This grade is intended for a wide range of applications including auto parts, home appliances, electrical parts/fittings, telecommunication and electronic devices.

### 3) Typical Data

PROPERTY	TEST METHOD	TEST CONDITION	UNIT	TYPICAL VALUE
MFI	ASTM D 1238	(200°C/5kg)	Gr/10 min	1.7
Izod Impact Strength (notched)	ISO 180	1/8 inch	Kj / m <sup>2</sup>	25
Tensile Strength @ Yield	ASTM D 638	5mm/min	Kgf /cm <sup>2</sup>	440
Elongation @ Break	ASTM D 638	5mm/min	%	40
Flexural Strength @ Yield	ASTM D 790	2.8mm/min	Kgf /cm <sup>2</sup>	640
Flexural Modulus	ASTM D 790	2.8mm/min	Kgf /cm <sup>2</sup>	20500
Vicat Softening Temperature (unannealed)	ASTM D 1525	5kg	°C	99
Rockwell Hardness	ASTM D 785		R-Scale	104
Flammability	UL 94	1.5mm Specimen	Recognized	HB

\*Typical Values : not to be construed as specifications Density of this grade is approximately 1.04 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:** SD-0150 ABS granules absorbs moisture from atmosphere, with a rate depending on temperature and humidity. It is recommended that the material be dried in a dehumidifying dryer at 80 °C to 85 °C for 2-4 hours, prior to use. Avoid excessive melt temperatures and long residence time, as they may cause thermal degradation. Processing temperatures are recommended to be set at 190 °C - 230 °C for cylinder, and 40 °C - 80 °C for mold. SD-0150 ABS can be processed under different conditions based on machinery available and articles molded.

Producer: Tabriz Petrochemical Co.

Licensor: SAMUNG

Packing: 25 Kg plastic bag