

## SD-0150

### GENERAL PURPOSE ABS

#### 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 consideration impact strength and medium heat deflection.

#### 2- Application :

This grade is intended for a wide range of application including:

- Auto parts,
- Home appliances
- Electrical parts fittings,
- Telecommunication and electronic devices.

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

#### 3- Typical Data :

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 test are carried out at 23C 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 absorb moisture from the 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.

Processing temperatures are recommended to be set at 190°C-230°C for cylinder, and 40°C to 80°C for mold. SD-0150 ABS can be processed under different conditions based on machinery available and articles molded.

