



TABRIZ PETROCHEMICAL COMPANY(T.P.C)

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 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.

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 ²	25
Tensile Strength @ Yield	ASTM D 638	5mm/min	Kgf /cm ²	440
Elongation @ Break	ASTM D 638	5mm/min	%	40
Flexural Strength @ Yield	ASTM D 790	2.8mm/min	Kgf /cm ²	640
Flexural Modulus	ASTM D 790	2.8mm/min	Kgf /cm ²	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

3) Typical Data :

Density of this grade is approximately 1.04 gr/cm³.

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.

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.

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