

## SV-0157 EXTRUSION GRADE ABS (Acrylonitrile - Butadiene - Styrene)

### 1) Product Description:

SV - 0157 ABS extrusion grade has been formulated to provide excellent mechanical properties, extrusion stability, vacuum formability and chemical resistance. It has low flow with high impact strength at ambient temperature and considerable impact strength at low temperatures. This grade has a wide processing window.

### 2) Applications:

SV-0157 extrusion grade is mainly used for parts which need significant impact resistance. Since sheets can be vacuum-formed, it is the appropriate grade for refrigerator sheets which are in direct contact with rigid insulating foam produced with cyclo-pentane as blowing agent.

### 3) Typical Data

PROPERTY	TEST METHOD	TEST CONDITION	UNIT	TYPICAL VALUE
MFI	ASTM D 1238	(200°C/5kg)	Gr/10 min	0.5
Izod Impact Strength (notched)	ISO 180	1/8 inch	Kj / m <sup>2</sup>	31
Tensile Strength @ Yield	ASTM D 638	5mm/min	Kgf /cm <sup>2</sup>	460
Elongation @ Break	ASTM D 638	5mm/min	%	70
Flexural Strength @ Yield	ASTM D 790	2.8mm/min	Kgf /cm <sup>2</sup>	630
Flexural Modulus	ASTM D 790	2.8mm/min	Kgf /cm <sup>2</sup>	21900
Vicat Softening Temperature (unannealed)	ASTM D 1525	5kg	°C	100.5
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 1.03 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:

SV-0157 ABS granules absorb 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 180 °C - 200 °C for cylinder, 190 °C -220 °C for die and 80 °C -110 °C for roll. SV-0157 ABS can be processed under different conditions based on machinery available and articles molded.

Producer: Tabriz Petrochemical Co.

Licenser: SAMUNG

Packing: 25 Kg plastic bag