

## ABS SV-0157

### EXTRUSION GRADE ABS

#### 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.

#### 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.

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD	TEST CONDITION
<b>MFI</b>	Gr/10 min	0.5	ASTM D 1238	(200°C/5kg)
<b>IZOD IMPACT STRENGTH</b>	Kj / m <sup>2</sup>	31	ISO 180	1/8 inch
<b>TENSILE STRENGTH @ YIELD</b>	Kgf /cm <sup>2</sup>	460	ASTM D 638	5mm/min
<b>ELONGATION @ BREAK</b>	%	70	ASTM D 638	5mm/min
<b>FLEXURAL STRENGTH @ YIELD</b>	Kgf /cm <sup>2</sup>	630	ASTM D 790	2.8mm/min
<b>FLEXURAL MODULUS</b>	Kgf /cm <sup>2</sup>	21900	ASTM D 790	2.8mm/min
<b>VICAT SOFTENING</b>	°C	100.5	ASTM D 1525	5kg
<b>R<sup>o</sup>CKWELL HARDNESS</b>	R-Scale	104	ASTM D 785	
<b>FLAMMABILITY</b>	Recognized	HB	UL 94	1.5mm

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.

#### 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.

Licensor: SAMUNG

Packing: 25 Kg plastic bag

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