



TYPICAL DATA SHEET*		ISSUE DATE	OCT 2024
ACRILIC NITRILE BUTADIENE STYRENE(ABS)		www.tpcos.ir	
SH0150		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

SH-0150 is ABS grade with good toughness, high impact strength excellent mechanical and low-temperature properties.

**Features:** This grade exhibits good process ability, vacuum formability, chemical resistance and dimensional stability. This grade is suitable for processing by extrusion and use in vacuum formed, general thin sheets and refrigerator liner sheets.

**Processing Method:** extrusion

**Application:** Parts with significant impact resistance, general sheets.

#### Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	gr/10min	ASTM D-1238	1.1
IZOD IMPACT STRENGTH (NOTCHED) (@23±2°C & HUMIDITY: 50±5%)	KJ/m <sup>2</sup>	ASTM D-256	22
VICAT SOFTENING POINT (50N LOAD&50°C/HR)	°C	ASTM D-1525	100
BULK DENSITY	Kg/m <sup>3</sup>	ASTM D-1895	600
TENSILE STRENGTH AT YEILD	Kgf/cm <sup>2</sup>	ASTM D-638	420
TENSILE STRENGTH AT BREAK	Kgf/cm <sup>2</sup>	ASTM D-638	390
ELONGATION AT YEILD	%	ASTM D-638	4
ELONGATION AT BREAK	%	ASTM D-638	60
FLEXURAL STRENGTH AT YIELD	Kgf/cm <sup>2</sup>	ASTM D-790	500
FLEXURAL MODULUS	Kgf/cm <sup>2</sup>	ASTM D-790	18500
HDT(0.45 MPA &120°C/HR)	°C	ASTM D-648	81
ROCKWELL HARDNESS(AT 23°C)	-	ASTM D-785	107 R SCALE
FLAMMABILITY	-	UL94	HB
SHRINKAGE	%	ASTM D-955	0.50

\*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

**Note:** Drying prior to processing is recommended in a desiccant de humidifying hopper dryer. An inlet air dew point of 20°F (-29°C) or below is recommended to achieve a moisture content 0.1%. Typical drying conditions are 2 hours at 180°-190°F (82° - 88°C). Drying for 4 hours at 160° - 170°F (71°-77°C) is also adequate.