



## TYPICAL DATA SHEET\*

ISSUE DATE

OCT 2024

ACRILONITRILE BUTADIENE STYRENE (ABS)

www.tpc.co.ir

SD0152

IRAN/TABRIZ/TABRIZPETROCHEMICAL  
COMPANY/P.O.BOX:51745-354/TEL: +984134282612

SD0152 is one of the styrenic ter polymers (ABS) grades with improved toughness versus HIPS grades.  
**Features:** SD0152 exhibits low shrinkage and good dimensional stability. SD0152 is widely used in general injection molding applications.

**Processing Method:** injection molding

**Application:** furniture, automotive parts, general injection molding, appliances casing, office supplies.

### Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (200°C/5KG)	gr/10min	ASTM D-1238	1.8
IZOD IMPACT STRENGTH (NOTCHED) (@23±2°C & HUMIDITY: 50±5%)	Kj/m <sup>2</sup>	ASTM D-256	24
VICAT SOFTENING POINT (50N LOAD & 50°C/HR)	°C	ASTM D-1525	98
BULK DENSITY	Kg/m <sup>3</sup>	ASTM D-1895	600
TENSILE STRENGTH AT YEILD	Kgf/cm <sup>2</sup>	ASTM D-638	460
TENSILE STRENGTH AT BREAK	Kgf/cm <sup>2</sup>	ASTM D-638	410
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	650
FLEXURAL MODULUS	Kgf/cm <sup>2</sup>	ASTM D-790	20500
HDT (0.45 MPA & 120°C/HR)	°C	ASTM D-648	81
ROCKWELL HARDNESS (AT 23°C)	-	ASTM D-785	105 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.