

**Samsung Cheil Industries Starex® SD-0150 ABS, Unreinforced (discontinued
)

Categories: [Polymer](#); [Thermoplastic](#); [ABS Polymer](#); [Acrylonitrile Butadiene Styrene \(ABS\), Molded](#)

Material Amorphous Acrylonitrile Butadiene Styrene (ABS)

Notes:

Characteristics: General Purpose: Good Impact Strength, Chemical Resistance, Processability

Applications: Household Appliances, Auto Interior Trim and Panels, Wheel Covers

Processing: Injection Molding (Melt Temperature: 375-445°F, Mold Temperature: 100-175°F)

Starex® is a registered trademark of Cheil Industries, Inc.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	(24 hr); ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	1.8 g/10 min @Load 5.00 kg, Temperature 200 °C	1.8 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	83 %	83 %	ASTM D638
Flexural Yield Strength	66.7 MPa	9670 psi	ASTM D790
Flexural Modulus	2.17 GPa	315 ksi	ASTM D790
Izod Impact, Notched	3.68 J/cm	6.89 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	98.0 °C	208 °F	ASTM D1525

Flammability, UL94

HB

HB

0.125 in

Processing Properties	Metric	English	Comments
Melt Temperature	191 - 229 °C	376 - 444 °F	Injection
Mold Temperature	38.0 - 79.0 °C	100 - 174 °F	

**

Materials flagged as discontinued (D) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.