

Lotte Advanced Materials Starex® SR-0320 K ABS, Unreinforced Heat Resistant

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

Material Notes: Information provided by Samsung Cheil Industries.

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
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	9.4 g/10 min	9.4 g/10 min	ASTM D1238
	@Load 10.0 kg,	@Load 22.0 lb,	
	Temperature 220 °C	Temperature 428 °F	
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	41.2 MPa	5970 psi	5 mm/min; ASTM D638
Elongation at Break	35 %	35 %	5 mm/min; ASTM D638
Flexural Strength	63.7 MPa	9240 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.86 J/cm	3.49 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	106 °C	223 °F	B/50; ISO R306

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.