

Chi Mei Polylac® PA-709 ABS Resin - General Purpose

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

Material Notes: Super High Impact, Extrusion & Injection Grade

Typical properties; not to be construed as specifications. Mechanical properties measured on 1/8 in. Type I specimens.

Information provided by US distributor Calsak Corporation.

Key Words: Poly(Acrylonitrile Butadiene Styrene); Calsak Corporation

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	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.00300 - 0.00700 cm/cm	0.00300 - 0.00700 in/in	ASTM D955
Melt Flow	0.500 g/10 min	0.500 g/10 min	at 200 °C/5kg; ASTM D1238.
	5.00 g/10 min	5.00 g/10 min	at 220 °C/10kg; ISO-1133.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ASTM D785
Tensile Strength, Yield	39.1 MPa	5670 psi	ASTM D638
Elongation at Break	40.0 %	40.0 %	ASTM D638
Tensile Modulus	2.52 GPa	366 ksi	ASTM D638
Flexural Modulus	2.21 GPa	321 ksi	ASTM D790
Flexural Yield Strength	62.6 MPa	9080 psi	ASTM D790
Izod Impact, Notched	4.10 J/cm	7.68 ft-lb/in	at 6.4 mm (1/4 in). ASTM D256
	4.65 J/cm	8.71 ft-lb/in	at 3.2 mm (1/8 in). ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	1/8 in, Unannealed; ASTM D648
	97.0 °C	207 °F	1/8 in, Annealed; ASTM D648
Vicat Softening Point	104.9 °C	220.8 °F	ASTM D1525
Flammability, UL94	HB	HB	1/16 in

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 disclaimer and terms of use regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.