

CCC Chemicals EL-LENE™ H5818J HDPE Resin

Categories: [Polymer](#); [Thermoplastic](#); [Polyethylene](#); [HDPE](#); [High Density Polyethylene \(HDPE\)](#); [Injection Molded](#)

Material Notes: Product Characteristics

- Good Processability
- Good stiffness good impact strength balance properties
- Odorless
- Food Contact

Applications

- General purpose injection parts such as housewares
- Office articles, toy parts, bottle caps

Information provided by Calsak Corporation

Key Words: Calsak

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	0.962 g/cc	0.0348 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	50.0 hour	50.0 hour	<-60 C; ASTM D1693
Melt Flow	18.0 g/10 min	18.0 g/10 min	200°C, 5kg; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	19.5641 MPa	2837.53 psi	ASTM D638
Tensile Strength, Yield	27.4 MPa	3970 psi	ASTM D638
Elongation at Yield	100 %	100 %	ASTM D638
Flexural Modulus	1.2703 GPa	184.24 ksi	ASTM D790
Izod Impact, Notched	0.198 J/cm	0.370 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	267 °F	ASTM D2117
Vicat Softening Point	122 °C	251 °F	ASTM D1525

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.

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