

EL-Lene™ H6007JU

High Density Polyethylene
SCG Chemicals Co., Ltd.



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Technical Data

Product Description

EL-Lene H6007JU is a high density polyethylene resin with good processibility and UV resistance suitable for industrial product produced from injection molding process.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Asia Pacific • North America
Features	• Food Contact Acceptable • Good Processability • Good Impact Resistance • Good Stiffness • Good UV Resistance
Uses	• Bottles • Industrial Applications • Crates • Outdoor Applications
Agency Ratings	• FDA 21 CFR 177.1520
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	0.964 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5 g/10 min	ASTM D1238
Molding Shrinkage		ASTM D955
Flow: 2.00 mm	1.6 %	
Across Flow: 2.00 mm	0.96 %	
Environmental Stress-Cracking Resistance		ASTM D1693B
50°C, 25% Igepal, Compression Molded, F50	4.00 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³		ASTM D638
Yield	30.4 MPa	
Break	21.6 MPa	
Tensile Elongation ³ (Break)	> 650 %	ASTM D638
Flexural Modulus	1320 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	34 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	68	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	75.0 °C	
Brittleness Temperature	-60.0 °C	ASTM D746
Vicat Softening Temperature	127 °C	ASTM D1525
Melting Temperature	133 °C	ASTM D2117

Injection	Nominal Value Unit
Processing (Melt) Temp	200 to 250 °C
Mold Temperature	20.0 to 60.0 °C
Injection Rate	Fast
Screw Speed	40 to 70 rpm

Injection Notes

Injection Pressure: 30 to 70% of max. pressure
Packing and Holding Pressure: 30 to 50% of max. pressure
Back Pressure: 10% of max. pressure

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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min

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Where to Buy

Supplier

SCG Chemicals Co., Ltd.

Bangkok, Thailand

Telephone: 66-2586-4184

Web: <http://www.siamcement.com>

Distributor

Calsak Polymers

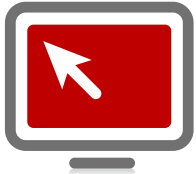
Telephone: 800-743-2595

Web: <http://www.calsakpolymers.com/>

Availability: North America



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– Birgit Elvardt Bader, Production Manager, Micotron

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– Kevin Chase, Owner & President, Chase Plastics



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