

EL-Lene™ H6105JU

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H6105JU is a high density polyethylene resin with UV resistance suitable for industrial product produced from injection molding process.

General Information			
Additive	UV stabilizer		
Features	Rigid, good		
	Impact resistance, good		
	Good UV resistance		
	Workability, good		
	Compliance of Food Exposure		
Uses	Industrial application		
	Container		
	Outdoor application		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 2.00mm	1.7	%	ASTM D955
Transverse flow: 2.00mm	1.2	%	ASTM D955
Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Compression Molded, F50)	4.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	29.4	MPa	ASTM D638
Fracture	23.5	MPa	ASTM D638
Tensile Elongation ² (Break)	> 1000	%	ASTM D638
Flexural Modulus	1270	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
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 - 250	°C	
Mold Temperature	20.0 - 60.0	°C	
Injection Rate	Fast		
Screw Speed	40 - 70	rpm	
Injection instructions			
Injection Pressure: 30 to 70% of max. pressurePacking and Holding Pressure: 30 to 50% of max. pressureBack Pressure: 10% of max. pressure			
NOTE			
1.	50 mm/min		
2.	50 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

