

LL 8460

Rotational Molding Resin

Description

LL 8460 is a linear low density hexene copolymer designed to offer excellent ESCR and toughness. This resin is ideally suited for applications that require the optimum balance of processability, stiffness and low temperature toughness.

Applications

- Agricultural Tanks
- Chemical Storage Tanks
- Pallets
- Potable Water Tanks
- Septic Tanks
- Large Size Playground Equipment

Additive Package	Form	Stabilizer
LL 8460.29	Pellet	Long Term UV 8 Stabilization
LLP8460.29	35 US Mesh Powder	Long Term UV 8 Stabilization

Resin Properties	Test Based On ³	Typical Value/Unit
Melt Index	ASTM D 1238	3.3 g/10 min
Density	ASTM D 4883	0.938 g/cm ³
Melting Point	ASTM D 3418	127 (235) °C (°F)

Molded Properties ¹		
Tensile Strength at Yield ²	ASTM D 638	17.9 (2,575) MPa (psi)
Tensile Elongation at Yield	ASTM D 638	17.7 %
Flexural Modulus	ASTM D 790	771 (112,000) MPa (psi)
1% Secant	Procedure B	
Impact Strength @ - 40°C	ARM	
1/8" (3.17 mm) thickness		95 (70)258 (190) J (ft-lbs _f)
1/4" (6.35 mm) thickness		258 (190) J (ft-lbs _f)
Environmental Stress Crack Resistance, F ₅₀	ASTM D 1693 Condition. A	
	100% Igepal	>1000 hr
	10% Igepal	145 hr
Deflection Temperature	ASTM D 648	
@ 66 psi (455 Kpa)		62 (144) °C (°F)
@ 264 psi (1820 Kpa)		39 (102) °C (°F)

1. All physical properties were measured on 3 mm. rotomolded samples unless a different value is shown, except for ESCR, which was measured on compression molded samples.
2. Tensile testing was conducted at a crosshead speed of 50 mm/min. The tensile strength reported refers to the maximum stress reached during the test.
3. Test procedures may be modified to accommodate operating conditions or facility limitations.

LL 8460 grade can - in principle - be used in food contact applications in the USA (FDA) and in Canada (HPB). Migration or use limitations may apply. Please contact your Hoover Solutions representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.