

LL9630U / LL9630UP

Linear Low Density Polyethylene Resin

Special Characteristics : InnoPlus LL9630U and LL9630UP are hexene comonomer based linear low density polyethylene designed for rotational molding applications. This grade is UV8 resistance level pelletized rotational molding resin with high stiffness and an excellent balance of processability and environmental stress cracking resistance.

InnoPlus LL9630UP is a powder form of InnoPlus LL9630U.

Typical Applications : InnoPlus LL9630U and LL9630UP can be used to produce variety applications such as general molding, toys & playground equipments, storage containers, medium to large water tanks and chemical tanks.

Typical Properties :

Properties	LL9630U / LL9630UP	Unit	Test Method
<i>Physical Properties</i>			
Melt Flow Rate (190 °C, 2.16 kg)	3.2	g/10 min	ASTM D1238
Density	0.938	g/cm ³	ASTM D792
Brittleness Temperature	< -70	°C	ASTM D3418
Vicat Softening Point	118	°C	ASTM D1525
Heat Distortion Temperature @ 0.455 MPa	60	°C	ASTM D648
<i>Mechanical Properties (Compression specimens)*</i>			
Tensile Strength at Yield	20	MPa	ASTM D638
Tensile Strength at Break	30	MPa	ASTM D638
Elongation @ Break	1000	%	ASTM D638
Flexural modulus	750	MPa	ASTM D790
Durometer Hardness	60	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition A 100% Igepal)	> 1000	Hours	ASTM D1693
Arm Impact Strength @ -40°C (3 mm Rotomolded sample)	67	J	ARM Method

Processing Condition :

The recommended oven temperature is in the range of 260 - 290 °C.

FDA Statement :

LLDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable for articles used for packaging or holding food during cooking.

Disclaimer :

This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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