



# LL9640U / LL9640UP

## Linear Low Density Polyethylene Resin

Special Characteristics: InnoPlus LL9640U and LL9640UP are hexene comonomer based linear low density polyethylene designed for rotational molding applications. These are UV8 resistance level rotational molding grades which provide an ex-cellent impact strength and good end use performance with optimizing the balance between stiffness and environmental stress cracking resistance.

#### InnoPlus LL9640UP is a powder form of InnoPlus LL9640U

Typical Applications: InnoPlus LL9640U and LL9640UP can be used to produce variety applications such as general mold-ing, toys & playground equipment, outdoor storage containers, medium to large water tanks and chemical tanks.

Typical Properties:

Properties	LL9640U / LL9640UP	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	4.0	g/10 min	ASTM D1238
Density	0.932	g/ cm <sup>3</sup>	ASTM D792
Brittleness Temperature	<-70	$^{\circ}\mathrm{C}$	ASTM D746
Vicat Softening Point	110	°C	ASTM D1525
Heat Distortion Temperature at 0.455 MPa	54	$^{\circ}\mathrm{C}$	ASTM D648
Mechanical Properties (Compression specimens)*  Tensile Strength at Yield	15	MPa	ASJM D638
Tensile Strength at Yield	15	MPa MP-	ASTM D638
Tensile Strength at Break	25	MPa	ASTM D638
Elongation at Break	1000	%	ASTM D638
Flexural modulus	550	MPa	ASTM D790
Durometer Hardness	56	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition A 100% Igepal)	> 1000	Hours	ASTM D1693
Arm Impact Strength at -40°C (3 mm Rotomolded sa	ample) 74	J	ARM Method

### Recommendation:

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

#### FDA Statement

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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

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