

# 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 excellent 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
<b>Physical Properties</b>			
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	°C	ASTM D746
Vicat Softening Point	110	°C	ASTM D1525
Heat Distortion Temperature at 0.455 MPa	54	°C	ASTM D648
<b>Mechanical Properties (Compression specimens)*</b>			
Tensile Strength at Yield	15	MPa	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 sample)	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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