

LL9450U / LL9450UP

Linear Low Density Polyethylene Resin

Special Characteristics: InnoPlus LL9450U and LL9450UP are butene co-monomer based linear low density polyethylene which are designed for rotational molding applications. These are UV8 stabilized rotational molding grades which provide a balance of flow and stiffness, good impact strength, toughness and color stability.

InnoPlus LL9450UP is a powder form of InnoPlus LL9450U

Typical Applications: InnoPlus LL9450U and LL9450UP can be used to produce variety applications such as general molding, toys & playground equipment, outdoor storage containers and water tanks.

Typical Properties:

Properties	LL9450U / LL9450UP	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	5.0	g/10 min	ASTM D1238
Density	0.935	g/ cm ³	ASTM D792
Brittleness Temperature	<-70	°C	ASTM D746
Vicat Softening Point	114	°C	ASTM D1525
Heat Distortion Temperature at 0.455 MPa	55	°C	ASTM D648
Mechanical Properties (Compression specimens)*			
Tensile Strength at Yield	17	MPa	ASTM D638
Tensile Strength at Break	24	MPa	ASTM D638
Elongation at Break	1000	%	ASTM D638
Flexural modulus	600	MPa	ASTM D790
Durometer Hardness	56	Shore D	ASTM D2240
Arm Impact Strength at -40°C (3 mm Rotomolded sample)	58	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.