LL9641U1 / LL9641U1P

Linear Low Density Polyethylene Resin

Special Characteristics: InnoPlus LL9641U1 and LL9641U1P are hexene comonomer based linear low density polyethylene designed for rotational molding applications. These are UV12 resistance level rotational molding grades which provide an excellent stiffness and a good balance between impact strength and environmental stress cracking resistance.

InnoPlus LL9641U1P is a powder form of InnoPlus LL9641U1

Typical Applications: InnoPlus LL9641U1 and LL9641U1P can be used to produce variety applications such as general molding, toys & playground equipment, outdoor storage containers, medium to large water tanks and chemical tanks.

Typical Properties:

Properties	LL9641U1 / LL9641U1P	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	4.0	g/10 min	ASTM D1238
Density	0.938	g/ cm^3	ASTM D792
Brittleness Temperature	<-70	°C	ASTM D746
Vicat Softening Point	118	°C	ASTM D1525
Heat Distortion Temperature at 0.455 MPa	60	°C	ASTM D648
Mechanical Properties (Compression specimens)*			
Tensile Strength at Yield	20	MPa	ASTM D638
Tensile Strength at Break	25	MPa	ASTM D638
Elongation at Break	950	%	ASTM D638
Flexural modulus	750	MPa	ASTM D790
Durometer Hardness	57	Shore D	ASTM D2240
ESCR, F_{50} (Condition A 100% Igepal)	> 500	Hours	ASTM D1693
Arm Impact Strength at -40ºC (3 mm Rotomolded sample)	71	J	ARM Method

Recommendation:

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

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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