

LL9641U / LL9641UP

Linear Low Density Polyethylene Resin

Special Characteristics : InnoPlus LL9641U/LL9641UP are hexene co-polymer based linear low density polyethylene designed for rotational molding applications. These are UV8 resistance level rotational molding grades which provide an excellent stiffness and a good balance between impact strength and environmental stress cracking resistance. InnoPlus LL9641UP is a powder form of InnoPlus LL9641U.

Typical Applications : InnoPlus LL9641U/LL9641UP 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	InnoPlus LL9641U/ InnoPlus LL9641UP	Unit	Test Method
<u>Physical Properties</u>			
Melt Index (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
<u>Mechanical Properties (Based on compression specimens)</u>			
Tensile Strength at Yield	20	MPa	ASTM D638
Tensile Strength at Break	25	MPa	ASTM D638
Elongation at Break	950	%	ASTM D638
Notched Izod Impact Strength	50 (Partial Break)	kg.cm/cm	ASTM D256
Flexural Modulus	750	MPa	ASTM D790
Durometer Hardness	57	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition A 100% Igepal)	>500	Hours	ASTM D1693

Processing Condition :

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

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

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