

# InnoPlus LL9641UP

Linear Low Density Polyethylene

PTT Global Chemical Public Company Limited

## Message:

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.

General Information			
Features	Low density		
	Rigidity, high		
	Copolymer		
	hexene comonomer		
	Good UV resistance		
Uses	Container		
	Water tank		
	General		
	Toys		
RoHS Compliance	RoHS compliance		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 500	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	20.0	MPa	ASTM D638
Fracture, molding	25.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	950	%	ASTM D638
Flexural Modulus (Compression Molded)	750	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method


Notched Izod Impact <sup>1</sup> (Compression Molded)	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	118	°C	ASTM D1525
NOTE			
1.	Partial Break		

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