

# InnoPlus LL9641U

Linear Low Density Polyethylene

PTT Global Chemical Public Company Limited

## Message:

InnoPlus LL9641U/LL9641UP are hexene co-polymer based linear low density polyethylene which are designed for rotational molding applications. These are UV-stabilized 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.

InnoPlus LL9641U/LL9641UP can be used to produce variety applications such as general molding, toys & playground equipments, outdoor storage containers, medium to large water tanks and chemical tanks.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Good Impact Resistance		
	Good Stiffness		
	Good UV Resistance		
	Hexene Comonomer		
Uses	High ESCR (Stress Crack Resist.)		
	Containers		
	General Purpose		
	Outdoor Applications		
	Tanks		
Forms	Toys		
Processing Method	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.939	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 (50°C, 1.90 mm, 100% Igepal, Compression Molded, F50)	100	hr	ASTM D1693
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, Compression Molded	20.0	MPa	
Break, Compression Molded	25.0	MPa	
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
Additional Information	Nominal Value	Unit	
Oven Temperature	260 to 290	°C	
NOTE			

1. Partial Break

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