

Rotational Molding Resin

Construction

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Tanks
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Automotive & Machinery
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Construction Equipment
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Ice box & Containers
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Furniture & Playground
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Marine & Leisure

InnoPlus: LLDPE								
Properties	Test Method	Unit	Rotational Molding					
			LL9630U2*/LL9630U2P	LL9630U/LL9630UP	LL9641U/LL9641UP	LL9641U1*/LL9641U1P	LL9450U/LL9450UP	LL9470U/LL9470UP
Physical Properties								
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	3.2	3.2	4	4	5	7
Density	ASTM D792	g/cm³	0.938	0.938	0.938	0.938ww	0.935	0.934
Brittleness Temperature	ASTM D746	°C	<-70	<-70	<-70	<-70	<-70	<-70
Vicat Softening Point	ASTM D1525	°C	118	118	118	118	114	111
Heat Distortion Temperature at 0.455 MPa	ASTM D648	°C	60	60	60	60	55	54
Mechanical Properties (Compression Specimens)								
Tensile Strength at Yield	ASTM D638	MPa	20	20	20	20	17	18
Tensile Strength at Break	ASTM D638	MPa	30	30	25	25	24	16
Elongation at Break	ASTM D638	%	1,000	1,000	950	950	1,000	700
Flexural Modulus	ASTM D790	MPa	750	750	750	750	600	600
Durometer Hardness	ASTM D2240	Shore D	57	60	57	57	56	56
ESCR; 25% Igepal, F ₅₀	ASTM D1693	Hours	> 1,000	> 1,000	> 500	> 500	-	-
Arm Impact Strength at -40 °C (3mm Rotomolded sample)	ARM Method	J	65	67	71	71	58	54
UV Resistance Level			UV20	UV8	UV8	UV12	UV8	UV8

International Standard Compliances (Only for *)

STANDARDS
Australia

STANDARDS
NEW ZEALAND
PAERĒWA AOTEAROA

LL963002/U2P, LL9641U1/U1P are published lists of the available materials for the industry by Supplier members of the Association of Rotational Moulders Australasia (ARMA)

