

Braskem PE ML3601U

Linear Low Density Polyethylene

Braskem

Message:

The resin ML3601U is a Linear Low Density Polyethylene, 1-hexene copolymer, indicated for rotational molding. It presents excellent environmental stress cracking resistance and high impact strength. This resin is ideally suited for applications that require a higher mechanical performance and coog chemical resistance.

Applications:

Large tanks for water and chemical products storage, underground tanks, septic tanks and manholes.

General Information			
Additive	Antioxidation		
	Long-term UV-8 stabilizer		
Features	High ESCR (Stress Cracking Resistance)		
	hexene comonomer		
	Antioxidation		
	Impact resistance, high		
	Good UV resistance		
Uses	Water tank		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.3	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	145	hr	ASTM D1693
50°C, 2.00mm, 100% Igepal, molded, F50	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	21.0	MPa	ASTM D638
Fracture, molding	30.1	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, molding	14	%	ASTM D638
Fracture, molding	> 1000	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	760	MPa	ASTM D790
Fundamentals of Hydrostatic Design	8.62	MPa	ASTM D2837
Oxidation Induction Time	> 100	min	ASTM D3895

Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.17mm, rotational molding	82	J	ARM
-40°C, 6.34mm, rotational molding	228	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, molded	60.0	°C	ASTM D648
1.8 MPa, unannealed, molded	41.0	°C	ASTM D648
Peak Melting Temperature	127	°C	ASTM D3418
Additional Information			

Rotomolding Oven Temperature: 250 to 350°C

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