

Braskem PE ML3602U

Linear Low Density Polyethylene

Braskem

Message:

The resin ML3602U is a Linear Low Density Polyethylene indicated for rotational molding.

Applications:

High mechanical resistance parts large tanks for water

Technical, agricultural and automotive parts

Water tanks

Technical Characteristics:

Good surface finishing

Excellent processability

Standard color for natural parts

Excellent balance between stiffness and impact resistance

UV and heat stabilization

Additives:

Weathering resistance UV8 and antioxidants.

General Information			
Additive	Antioxidation		
	heat stabilizer		
	Long-term UV-8 stabilizer		
Features	UV Stabilized		
	Rigid, good		
	Antioxidation		
	Impact resistance, good		
	Workability, good		
	Thermal Stability		
	Excellent appearance		
Uses	Agricultural application		
	Application in Automobile Field		
	Water tank		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	22.0	hr	ASTM D1693
50°C, 2.00mm, 100% Igepal, molded, F50	> 1000	hr	ASTM D1693

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	13	%	ASTM D638
Fracture	> 1000	%	ASTM D638
Flexural Modulus	740	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.14mm, rotational molding	80	J	ARM
-40°C, 6.34mm, rotational molding	220	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	59.0	°C	ASTM D648
1.8 MPa, not annealed	44.0	°C	ASTM D648
Peak Melting Temperature	127	°C	ASTM D3418

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