

Braskem PE ML3400N

Linear Low Density Polyethylene

Braskem

Message:

The resin ML3400N is a Linear Low Density Polyethylene developed for rotational molding. It presents good balance of processability, environmental stress cracking resistance and impact strength.

Applications:
This resin is indicated to produce rotomolded parts for general use applications, kayaks, toys, parts for the agricultural and automotive segments.

Processing Conditions:
Conditions comparable to polyethylene resins with similar melt index and density range. Recommended Oven Temperature Range: 220 to 350 °C. PIAT: 210 a 240°C

Additives:
Long term UV8 stabilization and antioxidants.

General Information			
Additive	Antioxidation		
	UV stabilizer		
Features	Low density		
	High ESCR (Stress Cracking Resistance)		
	Antioxidation		
	Impact resistance, high		
	Good UV resistance		
	Workability, good		
	General		
Uses	Agricultural application		
	Application in Automobile Field		
	General		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	rotomolding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.935	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	38.0	hr	ASTM D1693

50°C, 2.00mm, 100% Igepal, molded, F50	400	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	17.0	MPa	ASTM D638
Fracture, molding	25.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, molding	17	%	ASTM D638
Fracture, molding	> 1000	%	ASTM D638
Flexural Modulus (Compression Molded)	530	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.17mm, rotational molding	46	J	ARM
-40°C, 6.34mm, rotational molding	120	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, molded	56.0	°C	ASTM D648
1.8 MPa, unannealed, molded	40.0	°C	ASTM D648
Peak Melting Temperature	125	°C	ASTM D3418
Injection instructions			
Recommended Rotational Molding Conditions: Oven Temperature Range: 220°C to 350°C			
NOTE			
1.	0.3mm notched-plaques		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

