Braskem PE ML4400N

Linear Low Density Polyethylene

Braskem

Message:

The resin ML4400N is a Linear Low Density Polyethylene developed for rotational molding. It presents high stiffness and an adequate balance of processability and environmental stress cracking resistance. Applications: Water tanks, parts for the automotive and agricultural segments. Processing Conditions: Conditions comparable to polyethylene resins with similar melt index and density range. Oven Temperature Range: 220 to 350 °C. PIAT: 210 a 240°C Additives: Weathering resistance UV8 and antioxidants. conditions comparable to polyethylene resins with similar melt index and density range. Oven Temperature Range: 220 to 350 °C.

Additives:

Long term UV8 stabilization and antioxidants.

General Information					
Additive	Antioxidation				
	UV stabilizer				
Features	Rigidity, high				
	High ESCR (Stress Cracking Resistance)				
	Antioxidation				
	Good UV resistance				
	Workability, good				
Uses	Agricultural application				
	Application in Automobile Field				
	Water tank				
Agency Ratings	FDA 21 CFR 177.1520				
Forms	Particle				
Processing Method	rotomolding				
Physical	Nominal Value	Unit	Test Method		
Density	0.939	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.16					
kg)	3.9	g/10 min	ASTM D1238		
Environmental Stress-Cracking Resistance			ASTM D1693		
50°C, 2.00mm, 10% Igepal, molded, F50	28.0	hr	ASTM D1693		
50°C, 2.00mm, 100% Igepal, molded, F50	300	hr	ASTM D1693		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength			ASTM D638		
Yield, molding	21.0	MPa	ASTM D638		

Fracture, molding	24.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, molding	13	%	ASTM D638
Fracture, molding	> 1000	%	ASTM D638
Flexural Modulus - 1% Secant			
(Compression Molded)	670	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.17mm, rotational molding	57	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	60.0	°C	ASTM D648
1.8 MPa, unannealed, molded	40.0	°C	ASTM D648
Peak Melting Temperature	126	°C	ASTM D3418
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Oven Temperature Range: 220 to 350 °C.

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