Braskem

Data Sheet
Review 6 (Aug/15)

Linear Low Density Polyethylene ML4400N

Description:
The resin ML4400N is a Linear Low Density Polyethylene developed for rotational molding

Applications:
Water tanks
General purpose parts

Technical Characteristics:
Good surface finishing
High stiffness
Excellent processability
UV radiation and heat stabilization

Additives:
Weathering resistance UV8 and antioxidants

Resin Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	3.9
Density	D 792	g/cm3	0.939
Melting Temperature	D 3418	°C	126

Typical Properties [a]:

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	21
Tensile Elongation at Yield	D 638	%	13
Tensile Elongation at Break	D 638	%	>1000
Flexural Modulus	D 790	MPa	670
Environmental Stress Cracking Resistance(ESCR)[b]: 10% Igepal 100% Igepal	D 1693	h/F50	 28 300
Heat Deflection Temperature: 66 psi (0,45 MPa) 264 psi (1,82 MPa)	D 648	°C	 60 40
Impact Strength at -40°C[c]: 3,17 mm thickness 6,34 mm thickness	ARM	J	 57 120

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.
(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques; 50ºC.
(c) Rotomolded plaque.

Final Remarks:

1. This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA
2. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. Braskem does not recommend this grade for plastic containers of physiological saline and/or parenterally administered drugs.
8. The content of this Data Sheet replaces previous revisions published for this product.
9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.