

Linear Low Density Polyethylene ML2400N

Description:

The resin ML2400N is a Linear Low Density Polyethylene with good flexibility and low warpage. Without slip agent. Narrow molecular weight distribution.

Applications:

Masterbatches;
 High productivity injection of pigmented closures;
 Housewares.

Processing Conditions:

This resin was developed to be injected under conditions comparable to polyethylene resins with similar melt index and density range. Spiral flow 29,6.

Temperature Range: 150 to 210 °C.

The optimized process conditions may vary depending on the equipment used.

Resin Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	20
Density	D 1505	g/cm3	0.926

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	12
Tensile Elongation at Yield	D 882	%	16
Tensile Strength at Break	D 638	MPa	11
Tensile Elongation at Break	D 638	%	340
Flexural Modulus – 1% Secant	D 790	MPa	415
Shore D Hardness	D 2240	-	49
Notched Izod Impact Strength	D 256	J/m	485
Environmental Stress Cracking Resistance ^b : 10% Igepal	D 1693	h/F50	1.5
Vicat Softening Temperature at 10 N	D 1525	°C	94
Deflection Temperature under Load at 0.455 MPa	D 648	°C	46

(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; 50°C.

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. CAS Registry number: 25087-34-7.
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.