Linear Low Density Polyethylene ML3602U

Description:
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.

Resin Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	5.0
Density	D 1505	g/cm^3	0.937
Melting Temperature	D 3418	°C	127

Typical Properties [a]:

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	20
Tensile Elongation at Yield	D 638	%	13
Tensile Elongation at Break	D 638	%	> 1000
Flexural Modulus	D 790	MPa	740
Environmental Stress Cracking Resistance(ESCR)[b]: 10% Igepal 100% Igepal	D 1693	h/F50	 22 > 1000
Heat Deflection Temperature: 66 psi (0,45 MPa) 264 psi (1,82 MPa)	D 648	°C	 59 44
Impact Strength at -40°C[c]: 3,17 mm thickness 6,34 mm thickness	ARM	J	 80 220

(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 Aplication 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.