


Datasheet

04/06/2019

High Density Polyethylene HD4601U

Description:

The resin HD4601U is a High Density Polyethylene developed for rotational molding with excellent processability.

Applications:

Large tanks and cisterns
Manhole
High stiffness parts

Technical Characteristics:

Excellent balance between stiffness and impact resistance
UV radiation and heat stabilization

Additives:

- Weathering resistance UV16 and antioxidants.

Processes:

Rotational Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	2.0
Density	ASTM D 792	g/cm ³	0.942

Typical Properties:

Plaque properties

Feature	Method	Units	Values
Elongation at Yield (a)	ASTM D 638	%	11
Elongation at Break (a)	ASTM D 638	%	> 1000
Tensile Strength at Yield (a)	ASTM D 638	MPa	23
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	920
Environmental Stress Cracking Resistance - Notch 0,3 mm; 50°C; 10% Igepal CO630 (a)	ASTM D 1693	h/F50	20
Environmental Stress Cracking Resistance - Notch 0,3 mm; 50°C; 100% Igepal CO630 (a)	ASTM D 1693	h/F50	1000
Deflection Temperature under Load at 0,455 MPa (b)	ASTM D 648	°C	64
Deflection Temperature under Load at 1,82 MPa (b)	ASTM D 648	°C	46
Impact Strength - Thickness 3,17 mm (c)	ARM	J	85
Impact Strength - Thickness 6,34 mm (c)	ARM	J	235
OIT	ASTM D 3895	min	> 100
Melting temperature	ASTM D 3418	°C	129

Typical properties correspond to average values obtained in our laboratories. Test specimens prepared from compression molded sheet made according to ASTM D 4702. Thickness of test piece: a) 2 mm; b) 3 mm; c) Rotomolded plaque. Test temperature -40°C.

Final Remarks:

- 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.
- For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
- For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.