

High Density Polyethylene HD4600U

Description:

The resin HD4600U is a High Density Polyethylene developed for rotational molding.

Applications:

Large tanks for water storage
Cisterns
Manholes
High stiffness parts

Technical Characteristics:

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

Additives:

Weathering resistance UV14 and antioxidants.

Resin Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	2.0
Density	D 792	g/cm ³	0.942
Melting temperature	D 3418	°C	129

Typical Properties ^a:

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	22
Tensile Elongation at Yield	D 638	%	12
Tensile Elongation at Break	D 638	%	> 1000
Flexural Modulus	D 790	MPa	900
Environmental Stress Cracking Resistance(ESCR) ^b : 10% Igepal 100% Igepal	D 1693	h/F50	42 > 1000
Heat Deflection Temperature: 0,455 MPa 1,82 MPa	D 648	°C	67 46
Impact Strength at -40°C ^c : Thickness 3,17mm Espessura 6,34mm	ARM	J	85 235
OIT	D3895	Min.	>100

(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.

(c) Rotomolded plaque

