

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/cm ³	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 :	D 1693	h/F50	
10% Igepal			28
100% Igepal			300
Heat Deflection Temperature:	D 648	°C	
66 psi (0,45 MPa)			60
264 psi (1,82 MPa)			40
Impact Strength at -40°C ^c :	ARM	J	
3,17 mm thickness			57
6,34 mm thickness			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; 50°C.

(c) Rotomolded plaque.

