

Linear Low Density Polyethylene IF33

Description:

IF33 is a Linear Low Density Polyethylene, with narrow molecular weight, produced by solution process, for injection molding applications. It offers high fluidity, good flexibility and low warpage. It contains antioxidant additive.

Application:

Resin has been specifically developed for injection molding lids seal and lids for food containers, housewares, containers and general purpose.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	48
Density	D 729	g/cm ³	0.931

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	15
Tensile Elongation at Yield	D 638	%	14
Tensile Strength at Break	D 638	MPa	9
Tensile Elongation at Break	D 638	%	100
Tensile Modulus – 1% Secant	D 790	MPa	550
Shore D Hardness	D 2240	-	51
Notched Izod Impact Strength	D 256	J/m	60
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	-
Vicat Softening Temperature at 10 N	D 1525	°C	100
Deflection Temperature under Load at 0.455 MPa	D 648	°C	52
Rigidity	D 747	MPa	490

(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; 10% Igepal; 50°C.

Recommended Processing Conditions:

IF 33 has been developed to be used in the injection molding process under conditions comparable to the Linear Low Polyethylene.

Recommended temperature profile: 150 to 210°C.

