

High Density Polyethylene HD7600U

Description:

HD7600U is a High Density Polyethylene (HDPE), copolymer, developed for use in LLDPE and LDPE blends, special for shrink films.

This product has gels control and optimized additive for this application.

Application:

LLDPE and LDPE blends for shrink films.

Process:

Blow films.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.30
Density	D 792	g/cm ³	0.954

Typical Properties:

Plaque Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break	D 638	MPa	33
Tensile Strength at Yield	D 638	MPa	30
Flexural Modulus – 1% Secant	D 790	MPa	1136
Shore D Hardness	D 2240	-	64
Izod Impact Strength	D 256	J/m	100
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	100
Environmental Stress Cracking Resistance ^c	D 1693	h/F50	200
Vicat Softening Temperature at 10 N	D 1525	°C	128
Deflection Temperature under Load at 0.455 MPa	D 648	°C	66

(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.

(c) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 100% Igepal. 50°C.

Recommended Processing Conditions:

Temperature Profile:

- Barrel: 180°C to 190°C
- Die: 190°C to 210°C

