

High Density Polyethylene HS5010

Description:

HS5010 is a high density polyethylene with high molecular weight, copolymer. Offers good processability, have good stress cracking resistance and low temperature impact resistance.

Applications:

Food packing;

Containers from 5 to 20 liters for chemicals and agrochemicals goods; Small tanks and bedliner.

Additives:

Process:

Blow Molding.

Control Properties:

•	ASTM Methods	Units	Values
Melt Flow Rate (190°C/5kg)	D 1238	g/10 min	0.38
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	10
Density	D 792	g/cm ³	0.948

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	35
Flexural Modulus – 1% Secant	D 790	MPa	1150
Charpy Impact Strength at -40°C	D 6110	J/m	120
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	65
Environmental Stress Cracking Resistance ^c	D 1693	h/F50	>1000
Deflection Temperature under Load at 0.455 MPa	D 648	°C	70

⁽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 not

Recommended Processing Conditions:

Temperature Profile:

 Feeding zone: 180°C to 190°C Barrel: 190°C to 200°C

Head/Die: 190°C to 200°C

Maximum mold temperature:30°C



