Osterlene® HD0752

High Density Polyethylene

Osterman & Company

Message:

HD0752 is a high density polyethylene resin and is intended for use in injection molding applications such as pails, industrial parts and other shipping containers. This resin has been designed to provide excellent processability for molders and to meet the rigorous performance characteristics of applications requiring stackability, environmental stress crack resistance and impact strength.
Applications for HD0752 include injection molding, for injection molded pails, industrial parts and other shipping containers. This product has excellent impact strength, stress crack resistance and processability. It has a very narrow molecular weight distribution.
HD0752 has no slip, antiblock or processing aids.
HD0752 complies with U.S. FDA 21 CFR 177.1520 (c)3.1a, Canadian HPFB No Objection, EU, No 10/2011, U.S. USP, U.S. FDA DMF.

General Information			
Features	High ESCR (Stress Cracking Resistance) Impact resistance, high Workability, good Narrow molecular weight distribution		
Uses	Industrial application Container Barrel		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.950	g/cm^3	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	12.0	hr	ASTM D1693A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	26.9	MPa	ASTM D638
Fracture	22.8	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	1100	%	ASTM D638
Flexural Modulus - 2% Secant	1070	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength	84.1	kJ/m^2	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525
Melting Temperature	131	°C	DSC
Peak Crystallization Temperature (DSC)	118	°C	Internal method

Recommended distributors for this material

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