Lupolen 5021 DX

High Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 5021 DX is a high density polyethylene (HDPE) resin used in a wide range of processing methods. Typical customer applications for small blow molding include packaging for consumer goods, surfactants, toys and engineering parts. It exhibits good chemical resistance and good ESCR as well as good flowability and organoleptic properties. Lupolen 5021 DX is delivered in pellet form, contains antioxidants and has a broad molecular weight distribution. Lupolen 5021 DX is not intended for use in medical and pharmaceutical applications.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Good Chemical Resistance
	Good Flow
	Good Organoleptic Properties
	High ESCR (Stress Crack Resist.)
	Wide Molecular Weight Distribution
Uses	Automotive Applications
	Blow Molding Applications
	Bottles
	Industrial Applications
	Packaging
	Vials
Forms	Pellets
Processing Method	Blow Molding
	Extrusion Blow Molding

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183
Apparent Density	> 0.50	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.25	g/10 min	
190°C/21.6 kg	22	g/10 min	
190°C/5.0 kg	1.0	g/10 min	
FNCT [1] (80°C)	10.0	hr	ISO 16770
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 132/30)	45.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1000	MPa	ISO 527-2

Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (6°C)	6.0	kJ/m^2	ISO 179/1eA
Tensile Impact Strength (-30°C)	100	kJ/m^2	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	128	°C	ISO 306/A50
--	78.0	°C	ISO 306/B50
Melting Temperature (DSC)	131	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 200	°C	
NOTE			
1.	3.5 MPa, 2% Igepal BC/9		

Recommended distributors for this material

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