

Sasol Polymers PE LT033 (Extrusion/Blow molding)

Low Density Polyethylene

Sasol Polymers

Message:

Features

Tubular resin

Good mechanical properties

Wide processing range

Applications

Blow moulded bottles and tubes

General purpose low pressure pipe

Extruded profiles

General Information	
Additive	Antioxidant
Features	Antioxidant
	Food Contact Acceptable
Uses	Bottles
	Piping
	Profiles
	Tubing
Agency Ratings	EC 1935/2004
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)
	FDA 21 CFR 177.1520(c) 3.1a
Forms	Pellets
Processing Method	Blow Molding
	Pipe Extrusion
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50)	25.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹			ASTM D638
Yield	12.0	MPa	
Break	16.0	MPa	
Tensile Elongation ² (Break)			ASTM D638
Flexural Modulus	347	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.5	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	140 to 180	°C	
Cylinder Zone 2 Temp.	150 to 190	°C	
Cylinder Zone 3 Temp.	160 to 200	°C	
Cylinder Zone 4 Temp.	170 to 210	°C	
Cylinder Zone 5 Temp.	180 to 210	°C	
Melt Temperature	190 to 220	°C	

NOTE

- 1. 500 mm/min
- 2. 500 mm/min

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