

Sasol Polymers PE HM440

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
- High gloss
- Excellent low temperature resistance
- Excellent melt flow
- Hexene copolymer
- Applications
- Containers
- Lids
- Base polymer for masterbatch

General Information			
Additive	Antioxidation		
Features	Highlight		
	Copolymer		
	hexene comonomer		
	Antioxidation		
	High liquidity		
	Low temperature impact resistance		
	Compliance of Food Exposure		
Uses	Cover		
	Masterbatch		
	Container		
Agency Ratings	EC 1935/2004		
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50)	> 50.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	56		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹			ASTM D638
Yield	15.0	MPa	ASTM D638
Fracture	18.0	MPa	ASTM D638
Tensile Elongation ² (Break)	890	%	ASTM D638
Flexural Modulus	434	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ASTM D1525
Impact test (-40°C)	200	J/cm	ASTM D3029
Injection	Nominal Value	Unit	
Rear Temperature	140 - 170	°C	
Middle Temperature	150 - 180	°C	
Front Temperature	160 - 190	°C	
Nozzle Temperature	180 - 200	°C	
Processing (Melt) Temp	180 - 250	°C	
Injection instructions			
Zone 4: 170 to 200°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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