

Sasol Polymers PE HR411

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
- High rigidity
- Excellent impact strength
- Excellent chemical resistance
- Good ESCR
- Tough and abrasion resistant
- Colourable
- Hexene copolymer
- Applications
- Large mouldings
- Thick walled containers
- Articles for indoor use

General Information			
Additive	Antioxidation		
Features	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	hexene comonomer		
	Antioxidation		
	Impact resistance, high		
	Good coloring		
	Good wear resistance		
	Good chemical resistance		
	Good toughness		
	Compliance of Food Exposure		
Uses	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	rotomolding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50)	> 500	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	19.0	MPa	ASTM D638
Fracture	24.0	MPa	ASTM D638
Tensile Elongation ² (Break)	820	%	ASTM D638
Flexural Modulus	846	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ASTM D1525
Impact test ³ (-40°C, 5.00 mm)	350	J/cm	ASTM D3029
Injection	Nominal Value	Unit	
Rear Temperature	150 - 180	°C	
Middle Temperature	160 - 190	°C	
Front Temperature	170 - 200	°C	
Nozzle Temperature	190 - 220	°C	
Processing (Melt) Temp	200 - 280	°C	
Injection instructions			
Zone 4: 180 to 210°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Tested on 5mm rotomoulded product		

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