

Sasol Polymers PE HR411/06

Linear Low Density Polyethylene

Sasol Polymers

Message:

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

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Colorability		
	Good Toughness		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Rigidity		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D1505
Apparent Density	0.33	g/cm ³	ASTM D1895
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
Particle Size (< 600.0 µm)	90.0	%	ASTM D1921
Impact Test ¹ (-40°C)	350	J/cm	ASTM D3029
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield	19.0	MPa	
Break	24.0	MPa	
Tensile Elongation ³ (Break)	820	%	ASTM D638
Flexural Modulus	846	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	270 to 300	°C	
NOTE			
1.	Tested on rotomoulded product		
2.	50 mm/min		
3.	50 mm/min		

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