

Sasol Polymers PE HR486

Linear Low Density Polyethylene

Sasol Polymers

Message:

- Features
- High rigidity
- Excellent impact strength
- Excellent chemical resistance
- Good ESCR
- Heat and UV resistant
- Tough and abrasion resistant
- Colourable
- Hexene copolymer
- Applications
- Large agricultural tanks
- Large industrial tanks
- Solar panels
- Outdoor use

General Information	
Additive	Antioxidation demoulding UV stabilizer
Features	Rigidity, high High ESCR (Stress Cracking Resistance) Copolymer hexene comonomer Antioxidation Impact resistance, high Good UV resistance Good coloring Good wear resistance Good chemical resistance Heat resistance, medium Good toughness Compliance of Food Exposure
Uses	Industrial application Agricultural water tank Outdoor application Water tank Solar panel

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	
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)	830	%	ASTM D638
Flexural Modulus	837	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ASTM D1525
Impact test ³ (-40°C, 5.00 mm)	350	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	270 - 300	°C	
Injection instructions			
Zone 4: 170 to 200°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Tested on 5mm rotomoulded product		

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