

Sasol Polymers PE HR486/06

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
- Powder
- Hexene copolymer
- Applications
- Large agricultural tanks
- Large industrial tanks
- Solar panels
- Outdoor use

General Information	
Additive	Antioxidant
	Mold Release
	UV Stabilizer
Features	Antioxidant
	Copolymer
	Food Contact Acceptable
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Colorability
	Good Toughness
	Good UV Resistance
	Hexene Comonomer
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	High Rigidity
	Medium Heat Resistance
Uses	Agricultural Tanks
	Industrial Applications
	Outdoor Applications
	Solar Panels
	Tanks

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)	830	%	ASTM D638
Flexural Modulus	837	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ASTM D1525
Injection	Nominal Value	Unit	Test Method
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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