

Marlex® K307

Medium Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

Marlex® K307 is a Medium Density Polyethylene material. It is available in Latin America or North America for extrusion. Important attributes of Marlex® K307 are:

- Food Contact Acceptable
- Good Processability
- Hexene Comonomer
- High ESCR (Stress Crack Resistant)
- High Molecular Weight

Typical applications include:

- Bags/Liners
- Food Contact Applications
- Membranes
- Mining Applications
- Tanks

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Processability		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Medium Density		
Uses	Fuel Tanks		
	Geo Membranes		
	Liners		
	Mining Applications		
Agency Ratings	ASTM D 4976-PE225		
	FDA 21 CFR 177.1520(c) 3.1a 2		
	GRI GM13 3		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	21	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal, Compression Molded, F50	> 1500	hr	ASTM D1693B

100% Igepal, Compression Molded, F50	> 1500	hr	ASTM D1693C
SP-NCTL	> 1.2	month	ASTM D5397
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	20.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	830	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ⁴ (Compression Molded)	400	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	58.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	105	°C	ASTM D1525 ⁵
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		
4.	Type S		
5.	Rate A (50°C/h), Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

