

KPOL-HDPE HD K-0.35/955 BO

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Copolymer 1-hexene Extrusion-Blow Molding
Applications
Bottles for home use chemical liquid substances (bleache) and industrial chemicals (lubricants) up to 10 liters.
Bottles containing liquids for personal use (shampoo). Bottles for pharmaceutical products.
Characterisitcs
The KPOL® resin meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

General Information			
Additive	Antioxidant		
	Optical Whitener		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Hexene Comonomer		
	High Density		
Uses	Bottles		
	Pharmaceuticals		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
Condition B, 60°C, 10% Igepal CO-630, F50 ¹	> 500	hr	ASTM D2561
50°C, 3.18 mm, 100% Igepal CO-630, F50 ²	45.0	hr	ASTM D1693A
50°C, 1.91 mm, 100% Igepal CO-630, F50 ³	35.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, 23°C)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁴ (Yield)	27.6	MPa	ASTM D638

Tensile Elongation ⁵ (Break)	600	%	ASTM D638
Flexural Modulus - Tangent ⁶ (3.20 mm)	1380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁷ (3.20 mm)	270	J/m	ASTM D256A
Tensile Impact Strength	242	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁸ (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature ⁹	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	127	°C	ASTM D1525 ¹⁰
Melting Temperature	129	°C	DSC
NOTE			

1.	16 oz cylindrical bottle (approximated mass of 20 g) filled up to 33% of its capacity
2.	Grooved Specimen
3.	Grooved Specimen
4.	Type IV, 50 mm/min
5.	Type IV, 50 mm/min
6.	13 mm/min
7.	Muesca
8.	2°C/min
9.	F50; 25 lbf/in
10.	Rate A (50°C/h), Loading 1 (10 N)

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