

# KPOL-HDPE HD K-0.75/952

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Copolymer Extrusion - Blow Molding

Applications

KPOL - HD K-0.75/952 is specially formulated for the production of stretched tapes, monofilament and blown film.

Characterisitics

KPOL - HD K-0.75/952 is a medium molecular weight extrusion grade of high density polyethylene. If this product is used for food contact applications, then the user needs to ensure compliance with the requirements of relevant FDA regulations.

General Information			
Additive	Antioxidant (300 to 600 ppm)		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	High Density		
	Medium Molecular Weight		
Uses	Blown Film		
	Monofilaments		
	Tape		
Forms	Pellets		
Processing Method	Blown Film		
	Extrusion		
	Extrusion Blow Molding		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance <sup>1</sup>			
50°C, 3.18 mm, 100% Igepal CO-630, F50	15.0 to 20.0	hr	ASTM D1693A
50°C, 1.91 mm, 100% Igepal CO-630, F50	8.00 to 10.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, 23°C)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	30.3	MPa	ASTM D638

Tensile Elongation <sup>3</sup> (Break)	> 300	%	ASTM D638
Flexural Modulus - Tangent <sup>4</sup> (3.20 mm)	1650	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	126	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	79.0	°C	ASTM D648
Brittleness Temperature <sup>5</sup>	< -76.0	°C	ASTM D746A
Vicat Softening Temperature	130	°C	ASTM D1525 <sup>6</sup>
NOTE			
1.	Grooved Specimen		
2.	Type IV, 50 mm/min		
3.	Type IV, 50 mm/min		
4.	13 mm/min		
5.	F50; 25 lbf/in		
6.	Rate A (50°C/h), Loading 1 (10 N)		

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