

KPOL-HDPE HD K-I 9/956

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Copolymer

Characteristics

Is a narrow molecular weight distribution copolymer, that exhibits enhanced flow characteristics and good balance of stiffness and impact resistance. Typical applications include cases, tote bins, crates and trays.

Contains a UV stabilizer for outdoor applications.

Applications

KPOL® HD K-I 9/956 is designed to suit the manufacture of injection moulded cases, crates, trays, Industrial pails and other similar items requiring toughness and rigidity.

General Information			
Additive	Antioxidant (300 to 600 ppm)		
	UV Stabilizer		
Features	Antioxidant		
	Copolymer		
	Good Flow		
	Good Toughness		
	Good UV Resistance		
	High Density		
	High Rigidity		
	Narrow Molecular Weight Distribution		
Uses	Crates		
	Industrial Applications		
	Outdoor Applications		
	Pails		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	< 5.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	29.3	MPa	ASTM D638
Tensile Elongation ² (Break)	> 1000	%	ASTM D638
Flexural Modulus - 1% Secant	1450	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	56.7	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ASTM D1525 ³
NOTE			
1.	Type IV, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	Rate A (50°C/h), Loading 1 (10 N)		

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