

# KPOL-PP K-PPC 1.50

Polypropylene Impact Copolymer

KPOL Chem Co.

Message:

Polypropylene Heterophasic Copolymer

Characteristics

The KPOL® resin is a propylene impact copolymer designed for injection molding applications, Excellent Balance of Stiffness and Impact Strength at low temperatures, Contains Nucleating , Good Mold Release.

Superior Drop Impact at Refrigeration Temperature, Very High Flexural Modulus. Also is suitable for technical components: toys, sports, equipment, leisure goods, automotive, pallets, crates and pails.

Applications

Injection / Automobile applications, Battery case, Home appliances, Industrial parts for electronic. Thermoformed packages with high impact strength; Blown packages and technical parts in general; sheet extrusion.

General Information	
Additive	Antioxidant
	Nucleating Agent
Features	Antioxidant
	Good Impact Resistance
	Good Mold Release
	Good Stiffness
	Impact Copolymer
	Low Temperature Resistant
	Nucleated
Uses	Appliances
	Automotive Applications
	Battery Cases
	Crates
	Electrical/Electronic Applications
	Industrial Parts
	Packaging
	Pallets
	Thermoforming Applications
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Blow Molding
	Extrusion
	Injection Molding
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	25.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	10	%	ASTM D638
Flexural Modulus - 1% Secant	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-20°C)	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	88.0	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 <sup>3</sup>
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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#### Recommended distributors for this material

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