

KPOL-PP K-PPC 5.0

Polypropylene Impact Copolymer

KPOL Chem Co.

Message:

Polypropylene Heterophasic Copolymer

Applications

Injection Molding, of thick parts, containers, closures, battery cases. SPC in general.

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.

Characteristics

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

General Information			
Additive	Antioxidant		
	Nucleating Agent		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Mold Release		
	Good Stiffness		
	High Impact Resistance		
	Impact Copolymer		
	Nucleated		
Uses	Automotive Applications		
	Battery Cases		
	Closures		
	Containers		
	Crates		
	Pails		
	Pallets		
	Sporting Goods		
	Thick-walled Parts		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Compression Molded)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	32.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	85.0	°C	ASTM D648
Vicat Softening Temperature	90.0	°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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