

KPOL-PP K-PHC 18.0 B

Polypropylene Copolymer

KPOL Chem Co.

Message:

Polypropylene Heterophasic Copolymer

Characteristics

The KPOL® resin is a homopolymer and copolymer of Blenda heterophasic ethylene and propylene; specially designed for injection molding applications generally requiring excellent balance of properties between rigidity and impact resistance. This product has excellent processability and productivity.

Applications

Injection Molding, Automobile Applications, Battery case ; Toys; Household Appliances in general; Crates; Buckets; Base resin for compounding ; High impact resistance parts.

It exhibits a good fluidity combined with a good balance of impact and stiffness as well as a low warpage tendency. Even at sub-zero temperatures and also provides good surface properties and excellent processability.

General Information			
Additive	Antioxidant		
	Nucleating Agent		
Features	Antioxidant		
	BPA Free		
	Copolymer		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Good Surface Finish		
	Low Temperature Resistant		
	Low Warpage		
	Nucleated		
Uses	Appliances		
	Automotive Applications		
	Battery Cases		
	Crates		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
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)	18	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	68		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	20.0	MPa	ASTM D638
Tensile Elongation ² (Break)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-20°C)	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	150	°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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