KPOL-PP K-PHC 13.0 B

Polypropylene

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
	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)	13	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	70		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield)	20.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	4.0	%	ASTM D638
Flexural Modulus - 1% Secant	1000	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (-20°C)	30	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	148	°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)		

Recommended distributors for this material

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