

KPOL-PP K-PPC 20.0

Polypropylene Impact Copolymer

KPOL Chem Co.

Message:

Polypropylene Heterophasic Copolymer

Characteristics

The KPOL® resin is high impact block copolymer which has more ethylene contents than normal block copolymer, designed for injection molding applications, has excellent toughness and good dimensional stability. It is a controlled rheology grade.

Applications

KPOL® K-PPC 20.0 is a high melt flow rate heterophasic copolymer used for general purposes.

This product offers excellent processability, easy mould filling, productivity as well as good stiffness/impact strength balance (even at low temperature). Injection Molding of thick parts like housewares, paint pails, buckets, containers, battery cases, toys, etc.

General Information			
Additive	Antioxidant		
	Nucleating Agent		
Features	Antioxidant		
	Block Copolymer		
	Controlled Rheology		
	General Purpose		
	Good Dimensional Stability		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Good Toughness		
	Nucleated		
Uses	Appliances		
	Battery Cases		
	Containers		
	Household Goods		
	Pails		
	Thick-walled Parts		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	66		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	23.0	MPa	ASTM D638
Tensile Elongation ² (Break)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant	960	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)	86.0	°C	ASTM D648
Vicat Softening Temperature	147	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

