

KMI PP KM-047IB

Polypropylene Impact Copolymer

KMI Group, Inc.

Message:

KM-047IB is a highly isotactic block copolymer with high crystallinity. It shows an excellent balance of strength and impact resistance due to the application of high crystalline technology and the most appropriate rubber design. Its excellent gloss and surface hardness also make it useful in the exterior of family appliances.

Food Contact Application:

KM-047IB meets the FDA requirements in the Code of Federal Regulations in CFR 177.1520 for food contact.

Characteristics:

Excellent flowability, strength and hardness

High flowability/high strength: Allows for larger and thinner injection molded products

High heat resistance -> High utilization temperature

High crystallinity -> Short cooling time after injection molding to allow for high speed production

Good surface hardness -> Superior scratch resistance

General Information			
Features	Block Copolymer		
	High isotactic		
	Rigidity, high		
	Highlight		
	High crystallization		
	High strength		
	Impact copolymer		
	High scratch resistance		
	High liquidity		
	Heat resistance, high		
	Compliance of Food Exposure		
	High hardness		
Uses	Electrical appliances		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	97		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	33.3	MPa	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Unnotched Izod Impact (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Distortion	132	°C	ASTM D648

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