

KMI 223L

Acrylonitrile Butadiene Styrene

KMI Group, Inc.

Message:

KMI 223L is a general purpose ABS and by continuous Mass, is a high flow injection moulding grade having good impact resistance coupled with an excellent gloss.

Designation: Thermoplastic ISO 2580-ABS 1,MG,095-25-16-25

Applications:

Widely used in the small and large household appliances sector, vacuum cleaners, toys, telephones and consumer electronics.

General Information			
Features	Highlight		
	Impact resistance, good		
	High liquidity		
	Compliance of Food Exposure		
	General		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	General		
	Toys		
Agency Ratings	Europe 10/1/2011 12:00:00 AM		
Appearance	Available colors		
	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	26	g/10 min	ISO 1133
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2350	MPa	ASTM D790
Flexural Strength	69.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	DIN 53453
Charpy Unnotched Impact Strength	No Break		DIN 53453

Notched Izod Impact			
	100		
	170		
	70		
--	50	J/m	ISO 180/4A
	13		
--	6.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306/A120, ISO 306/B120
CLTE - Flow	1.7E-6	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40 - 0.60	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant	3.10		IEC 60250
Dissipation Factor	0.015		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (Tested by KMI)	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	220 - 250	°C	
Mold Temperature	40 - 70	°C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

