

Denka MALECCA K-400 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

A heat-resistant ABS resin based on "DENKA IP" – a Styrene-N-Phenylmaleimide copolymer. It has been designed as an easy-to-use resin by improving conventional heat-resistant ABS resins which had defects in terms of moldability, thermal stability, and impact resistance. Applications Mobile phones vehicle-mounted audio equipment automotive interior components home electric appliances OA equipment, etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Denka-MALECCA-K-400-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Melt Flow	2.0 g/10 min	2.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	22 g/10 min	22 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 265 °C	@Load 22.0 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
	117	117	ISO 2039-2
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D638
	51.0 MPa	7400 psi	50mm/min; ISO 527-2
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527-2
Elongation at Break	27 %	27 %	ISO 527-2
Tensile Modulus	2.65 GPa	384 ksi	1mm/min; ISO 527-1
Flexural Strength	83.0 MPa	12000 psi	15mm/min; ASTM D790
	86.0 MPa	12500 psi	ISO 178
Flexural Modulus	2.65 GPa	384 ksi	2mm/min; ISO 178
	2.75 GPa	399 ksi	15mm/min; ASTM D790
	1.42 J/cm	2.66 ft-lb/in	

Izod Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D256 Comments
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	104 °C	219 °F	ISO 75-2
	115 °C	239 °F	ASTM D648
Vicat Softening Point	125 °C	257 °F	50N; ISO 306
Flammability, UL94	HB	HB	

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