

Denka MALECCA K-700 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-700-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Melt Flow	6.0 g/10 min @Load 10.0 kg, Temperature 265 °C	6.0 g/10 min @Load 22.0 lb, Temperature 509 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ISO 2039-2
	120	120	ASTM D785
Tensile Strength at Break	38.0 MPa	5510 psi	50mm/min; ISO 527-2
	39.0 MPa	5660 psi	ASTM D638
Tensile Strength, Yield	37.0 MPa	5370 psi	ISO 527-2
Elongation at Break	11 %	11 %	ISO 527-2
Tensile Modulus	2.00 GPa	290 ksi	1mm/min; ISO 527-1
Flexural Strength	63.0 MPa	9140 psi	15mm/min; ASTM D790
	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	1.85 GPa	268 ksi	15mm/min; ASTM D790
	1.90 GPa	276 ksi	2mm/min; ISO 178
Izod Impact, Notched	0.690 J/cm @Temperature 23.0 °C	1.29 ft-lb/in @Temperature 73.4 °F	ASTM D256
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	ISO 75-2
	138 °C	280 °F	ASTM D648
Vicat Softening Point	150 °C	302 °F	50N; ISO 306
Flammability, UL94	HB	HB	

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