

Denka MALECCA K-090 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-090-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Melt Flow	12 g/10 min @Load 10.0 kg, Temperature 220 °C	12 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ISO 2039-2
	114	114	ASTM D785
Tensile Strength at Break	43.0 MPa	6240 psi	ASTM D638
	49.0 MPa	7110 psi	50mm/min; ISO 527-2
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527-2
Elongation at Break	30 %	30 %	ISO 527-2
Tensile Modulus	2.60 GPa	377 ksi	1mm/min; ISO 527-1
Flexural Strength	72.0 MPa	10400 psi	15mm/min; ASTM D790
	74.0 MPa	10700 psi	ISO 178
Flexural Modulus	2.45 GPa	355 ksi	15mm/min; ASTM D790
	2.55 GPa	370 ksi	2mm/min; ISO 178
Izod Impact, Notched	2.16 J/cm @Temperature 23.0 °C	4.05 ft-lb/in @Temperature 73.4 °F	ASTM D256
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	ISO 75-2
	97.0 °C	207 °F	ASTM D648
Vicat Softening Point	107 °C	225 °F	50N; ISO 306
Flammability, UL94	HB	HB	

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