

MAPEX

NYLON ENGINEERING PLASTICS

Properties	Test conditions	UNIT	ASTM Test Method	Standard	Mapex A0050FN
Mechanical Properties					
Tensile Strength	2 mm/min	kg/cm ²	D 638	700 min	800
Elongation at Break	2 mm/min	%	D 638	5.0 min	10
Flexural strength	2 mm/min	kg/cm ²	D 790	1100 min	1250
Flexural modulus	2 mm/min	kg/cm ²	D 790	31000 min	34000
Izod impact strength (notched)	23°C -40°C	kg-cm/cm	D 256	3.0 min -	5.0 -
Rockwell Hardness	Scale R Scale M		D 785	100 min	119
Thermal Properties					
Melting Point		°C	D 789	-	-
Temperature of deflection under load	°C 4.6 kg/cm ² 18.6 kg/cm ²	°C	D 648	220 min 85 min	231 90
Coefficient of linear thermal expansion	Parallel Normal	E-5 1/°C	D 696	-	7
Electrical Properties					
Volume Resistivity		ohm · m	D 257	-	-
Dielectric Strength		kV/mm	D 149	-	-
Arc Resistance		sec	D 495	-	-
Miscellaneous Properties					
Specific Gravity			D 792	1.17±0.02	1.17
Flammability	1/8" 1/16"	UL-94	D 635	V-0 V-0	V-0 V-0
Water absorption	23°C, 50 % RH	%	D 570	-	-
Mold shrinkage	Flow Transverse	%		1.3-1.5	1.3-1.5
Description			Division Application Color code	Flame retardant Electronic Products Natural	
Remark	Unreinforced Nylon66, Flame retardant , Non-halogen				

※Typical properties can be subject to change without further notice.

GINAR Engineering Plastics

Quality Assurance Department TAIWAN

Phone +886-3-3868820 Fax +886-3-3863587 www.ginar.com.tw

ISO9001 ASSURANCE

Unit Conversion	Tensile Str. Flexural Str. Modulus	IZOD Impact Strength
	1psi=14.23 kg/cm ²	1 ft-lb/in =0.18 kg-cm/cm
	1Mpa=10.2 kg/cm ²	1J/m=0.102 kg-cm/cm

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