



MC Nylon

Monomer Casting Nylon

Properties

Properties	Standard	Test Method	Unit	Test Data
Physical Properties				
Specific Gravity	ISO 1183	/	lb/in ³	0.0415
Water Absorption	ISO 62	73.4°F /sat	%	<1.0
Vicat Softening Temperature	ASTM D1525	/	°F	392 - 419
Linear Coefficient of Thermal Expansion - Flow	ASTM D696	/	in/(in·° F)	5×10^{-5}
Mechanical Properties				
Tensile Strength at Break	ISO 527	Break 0.394 in/min	KPSI	13.08
Elongation at Break	ISO 527	Break 0.394 in/min	%	25 - 70
Flexural Strength	ISO 178	0.079 in/min	KPSI	12.80
Flexural Modulus	ISO 178	0.079 in/min	KPSI	418.5
Izod Notched Impact Strength	ISO 179	73.4°F	ft·lb	>4.496
Rockwell Hardness	ASTM D785	73.4°F	/	110 - 125
Shore Hardness	ISO 868	82.4°F	Shore D	80 - 86
Combination Properties				
Temperature of Deflection under Load	ISO 75	261 psi	°F	320 - 392
Glass Transition Temperature	ISO 3146	/	°F	/
Melting Point	ISO 3147	/	°F	428 - 433
Dielectric Constant	IEC 60250	/	10MHz	3.6 - 6.6
Dielectric Dissipation Factor	IEC 60250	/	10MHz	0.012 - 0.14
Volume Resistivity	IEC 600093	ACL-800	Ω·in	3.28×10^{13}
Flammability	UL94	/	/	HB

* The value in this table are converted from metric to imperial units.
* For precise data, please contact us.