

NYLON ENGINEERING PLASTICS

Properties	Unit	Test Method	RA0520FN 3
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Mechanical

Tensile Str,Yield	Psi (Mpa)	D-638	20000
Tensile Elongation,Break	%	D-638	2.0
Flexural Strength	Psi (Mpa)	D-790	32000
Flexural Modulus	Psi (Mpa)	D-790	1450000
Izod Impact Strength,Notched	ft·lb/in (J/m) 23°C -30°C	D-256	1.8 -
Rockwell Hardness	R-Scale	D-785	R121

Thermal

Melting Point	°C	D-789	261
Heat Deflection Temperature	°C 66 Psi (0.45Mpa) °C 264 Psi(1.82Mpa)	D-648	- 250
Coefficient of Thermal Expansion	E-5 1/°C	D-696	1.56
Glow Wire Test	°C	IEC 695-2-1	960

Electrical

Dielectric Strength	kv/mm	D-149	17.5
Volume Resistivity	ohm-cm	D-257	7.2E14
Arc Resistance	sec	D-495	-

Other

Specific Gravity	-	D-792	1.58
Mold Shrinkage, Flow	% 3mm	D-955	0.25-0.40
Water Absorption	% 23°C,24hr	D-570	0.3

Flammability

Flammability	1/8" 1/16" 1/32"	UL-94	V-0
Remark	Nylon 66 30% Glass Fiber reinforced , Flame Retardant , RoHS certification		