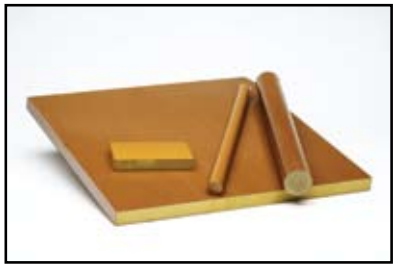
HIGH PERFOMANCE PLASTICS

TORLON® 4203

PolyAmideImide 4203 Electrical Grade



*** TORLON® is the registered trademark of*

QUADRANT

PRODUCT CAPABILITIES:

· Rod : 1/8" - 2"
· Sheet : 1/4" - 1"

PRODUCT COLORS:

Yellow-Ochre

ADVANTAGES:

· High Stiffness/Strength
· Wide Operating Range (-190°C To + 260°C)
· Dimensional Stability
· Excellent Chemical Resistance
· Excellent Creep Resistance
· Good Radiation Resistance
· Super Electrical / Dielectric Performance

APPLICATIONS INCLUDE:

· Connectors
· Switches
· Relays
· Thrust Washers
· Valve Seats
· Piston Rings
· Mechanical Linkages
· Bushings
· Electrical and Thermal Insulators

GENERAL PROPERTIES	ASTM or UL Test	TORLON® 4203 Typical Values
PHYSICAL		
Specific Gravity (g/cm^3)	D792	1.41
Water Absorption, 24 hrs (%)	D570	0.4
MECHANICAL		
Tensile Strength (psi)	D638	20,000
Tensile Modulus (psi)	D638	600,000
Tensile Elongation at Break (%)	D638	10
Flexural Strength (psi)	D790	24,000
Flexural Modulus (psi)	D790	600,000
Compressive Strength (psi)	D695	24,000
Compressive Modulus (psi)	D695	700,000
Hardness, Rockwell	D785	E80 / M120
IZOD Notched Impact (ft-lb/in)	D256	2
THERMAL		
Coeff. of Thermal Expansion (x 10^{-5} in./in./°F)	E831	1.7
Heat Deflection Temp (°F / °C) @ 264 psi	D648	532 / 278
Glass Transition Temp (°F / °C)	D3418	527 / 275
Max Operating Temp (°F / °C)	–	500 / 260
Thermal Conductivity (BTU-in/ft^2-hr-°F)	F433	1.8
Flammability Rating	UL94	V-O
ELECTRICAL		
Dielectric Strength (V/mil) short time, 1/8" thick	D149	580
Dielectric Constant at 1 MHz	D150	4.2
Dissipation Factor at 1 MHz	D150	0.026
Surface Resistivity (ohm-sq) at 50% RH	EOS/ESD S11.11	> 10^{16}

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.

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