



MECHETEC[®]
PPO



Polyphenylene Oxide and Styrene (Noryl[®] PPO)



Easily Machined and Fabricated



Excellent Toughness

APPLICATIONS

Manifolds
Electrical Insulators
Electrical Connectors
Aircraft Instrumentation
Business Equipment Housings

KEY FEATURES

230 °F Continuous Use Temperature
Excellent Dimensional Stability
Low Moisture Absorption
High Dielectric Strength
Flame Resistant

SHAPES AND SIZES

ROD DIAMETER

PPO 0.375" - 8.0"
PPO Rg-30 0.375" - 8.0"

SHEET THICKNESS

PPO 0.25" - 4.0"
PPO Rg-30 0.25" - 4.0"



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	Test Method	Units	PPO	PPO Rg-30 30% Glass Fiber Reinforced
Mechanical				
Specific Gravity	ASTM-D792	—	1.08	1.28
Tensile Strength	ASTM-D638	psi	9,200	15,000
Tensile Elongation	ASTM-D638	%	25	5
Tensile Modulus of Elasticity	ASTM-D638	psi	370,000	—
Flexural Strength	ASTM-D790	psi	14,400	23,500
Flexural Modulus of Elasticity	ASTM-D790	psi	370,000	1,040,000
Izod Notched Impact	ASTM-D256	ft.-lb./in. R or L scale	3.5	2.2
Rockwell Hardness	ASTM-D785		R119	L108
Thermal				
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./deg F	3.3 x 10 ⁻⁵	1.4 x 10 ⁻⁵
Max. Continuous Use Temp.	Internal Std.	°F	230	230
Heat Deflection Temp. @ 264 psi	ASTM-D3418	°F	254	280
Electrical				
Dielectric Strength-Short Term	ASTM-D149	volts/mil	500	550
Dielectric Constant @ 60 Hz	ASTM-D150	---	2.7	2.93
Dissipation Factor @ 60 Hz	ASTM-D150	---	0.0007	0.0009
Volume Resistivity	ASTM-D257	ohm-cm	>10 ¹⁵	>10 ¹⁶
Miscellaneous				
Water Absorption/24 hrs.	ASTM-D570	% weight	0.07	0.06
Flammability	UL-94	---	V-0 (0.24")	HB

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