



POLYMER INDUSTRIES

PPO

TYPICAL PROPERTIES

Property	Test Method	Units	PPO	PPO Rg-30
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	ASTM-D638	psi	370,000	---
Flexural Strength	ASTM-D790	psi	14,400	23,500
Flexural Modulus	ASTM-D790	psi	370,000	1,040,000
Izod Notched Impact	ASTM-D256	ft.- lb./in.	3.5	2.2
Rockwell Hardness	ASTM-D785	R or L scale	R119	L108
Thermal				
Coef. Of Linear Thermal Expansion	ASTM-D696	in./in./°F	3.3x10 ⁻⁵	1.4x10 ⁻⁵
Max Continuous Temp.	Internal Std.	°F	230	230
Heat Defl. Temp. @ 264 psi	ASTM-D3418	°F	257	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 hours	ASTM-D570	% weight	0.07	0.06
Flammability	UL-94	---	V-0 (0.24")	HB

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