

TYPICAL PROPERTIES of NORYL[®] Modified PPO

ASTM or UL test	Property	Unfilled	30% Glass-filled
PHYSICAL			
D792	Density (lb/in ³) (g/cm ³)	0.039 1.08	0.049 1.36
D570	Water Absorption, 24 hrs (%)	0.07	0.06
MECHANICAL			
D638	Tensile Strength (psi)	9,600	17,800
D638	Tensile Modulus (psi)	350,000	-
D638	Tensile Elongation at Break (%)	30	-
D790	Flexural Strength (psi)	13,500	20,000
D790	Flexural Modulus (psi)	360,000	1,100,000
D695	Compressive Strength (psi)	-	-
D695	Compressive Modulus (psi)	-	-
D785	Hardness, Rockwell	R119	L108
D256	IZOD Notched Impact (ft-lb/in)	5.0	2.3
THERMAL			
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	3.3	1.4
D648	Heat Deflection Temp (°F / °C) at 264 psi	265 / 129	275 / 135
D3418	Vicat Softening Temp (°F / °C)	310 / 154	- / -
-	Max Operating Temp (°F / °C)	220 / 105	220 / 105
C177	Thermal Conductivity (BTU-in./ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	-	-
UL94	Flammability Rating (1/4" thick)	V-0	V-0
ELECTRICAL			
D149	Dielectric Strength (V/mil) short time, 1/8" thick	500	530
D150	Dielectric Constant at 60 Hz	2.7	3.2
D150	Dissipation Factor at 60 Hz	0.001	0.002
D257	Volume Resistivity (ohm-cm) at 50% RH	10 ¹⁷	10 ¹⁷