

PPO NORYLUX®

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Norylux modified PPO is a strong engineering plastic with outstanding mechanical, thermal, and electrical properties. Low moisture absorption and low thermal expansion make Norylux one of the most dimensionally stable thermoplastics available. Norylux is widely used for electrical housings and structural components since it has excellent insulating properties, flame resistance, and dimensional stability over a wide range of service temperatures. Norylux is often selected for fluid handling applications since it has a low moisture absorption and excellent strength and stiffness. Norylux is easy to fabricate, paint, and glue.

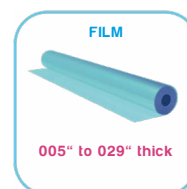


The following physical property information based on typical values of the base modified polyphenylene oxide resin.

Property	Units	Test Standard	Unfilled	30% Glass Filled
Mechanical				
Flexural Modulus	psi	ASTM D790	370,000	1,130,000
Flexural Strength @yield	psi	ASTM D790	14,400	25,000
Hardness	R & L Scale	ASTM D785	R119	L108
Izod Impact Strength Notched @-40°F Notched @73°F	ft-lbs/in	ASTM D256	2.5	1.8
	ft-lbs/in	ASTM D256	3.5	2.2
Tensile Elongation @break	%	ASTM D638	25.0	5.0
Tensile Strength @break	psi	ASTM D638	9,200	17,500
Thermal				
Coefficient of Thermal Expansion	in/in/°F	ASTM E831	3.3x10 ⁻⁵	1.4x10 ⁻⁵
Flammability Rating @.059" @.236"	—	UL94	V-1	V-1
	—	UL94	V-0	V-0
Heat Deflection Temperature @66 psi @264 psi	°F	ASTM D648	—	285
	°F	ASTM D648	254	275
Electrical				
Dielectric Constant @60Hz	—	ASTM D150	2.69	3.15
Dielectric Strength	V/mil	ASTM D149	500	530
Dissipation Factor @60Hz	—	ASTM D150	0.0007	0.0020
Other				
Specific Gravity	—	ASTM D792	1.08	1.31
Water Absorption @24 hours	%	ASTM D570	0.070	0.060

Applications Include:

Manufacturing Capabilities:



Colors:

Black (standard)

Glass Filled (gray)

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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Phone : 1.610.459.1000
Phone : 1.800.000.1700
Fax : 610.459.1084
490 West Lenni road
Lenni, PA 19052
U.S.A
Email : info@westlakeplastics.com

CLICK TO OUR
WEBSITE



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