

PPO NORYLUX™

Norylux modified polyphenylene oxide (PPO) is a high strength amorphous engineering thermoplastic offering outstanding mechanical, thermal, and electrical properties along with low moisture absorption and low thermal expansion. Westlake Plastics extrudes and compression molds unfilled and flame-retardant products and compression molds glass reinforced, and glass/mineral filled products.



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	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"	UL94	V-1	V-1
	@.236"	UL94	V-0	V-0
Heat Deflection Temperature	@66 psi	ASTM D648	—	285
	@264 psi	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:

- Manifolds
- Pump, valve, and fitting applications
- Scientific and analytical instrument components
- Housings/Covers
- Electrical Components

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



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