

Norylux™ EN-265

Polyphenylene Ether + PS

Westlake Plastics Company

Message:

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 low moisture absorption and excellent strength and stiffness. Norylux is easy to fabricate, paint, and glue.

Applications Include:

Manifolds

Pump, valve, and fitting applications

Scientific and analytical instrument components

Housings

Covers

Electrical components

Advantages of Norylux:

Excellent dimensional stability

Low moisture absorption

Good strength and stiffness over a wide range of service temperatures

Good impact resistance

High dielectric strength

Easy to fabricate, paint, and glue

Excellent flammability rating (UL94 V-1 @ .058" thick)

General Information	
Features	Flame Retardant
	Good Dimensional Stability
	Good Electrical Properties
	Good Impact Resistance
	High Stiffness
	High Strength
	Low Moisture Absorption
	Paintable
	Thermally Insulating
Uses	Electrical Housing
	Electrical Parts
	Fittings
	Protective Coverings
	Pump Parts
	Structural Parts
	Valves/Valve Parts
Appearance	Black
	Colors Available

Forms	Film
	Rod
	Sheet

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	63.4	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength (Yield)	99.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	130	J/m	
23°C	190	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	123	°C	ASTM D648
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.69		ASTM D150
Dissipation Factor (60 Hz)	7.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.47 mm	V-1		
5.99 mm	V-0		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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