

REGION AMERICAS

NORYL PX9406 resin is a non-reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of 5VA at 2.5mm, V0 at 0.75mm and UL746C F2 rating. NORYL PX9406 exhibits improved productivity and reliability along with high heat resistance, low warpage, low moisture absorption, and dimensional stability. This material is an excellent candidate for electrical applications.

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Home Appliances, Commercial Appliance
Electrical and Electronics	Electronic Components, Mobile Phone - Computer - Tablets
Industrial	Electrical, Defense

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yld, Type I, 50 mm/min	75	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	55	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	9.5	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	18	%	ASTM D638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	111	MPa	ASTM D790
Flexural Modulus, 2.6 mm/min, 100 mm span	2640	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	1121	J/m	ASTM D4812
Izod Impact, notched, 23°C	160	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	42	J	ASTM D3763
THERMAL ⁽¹⁾			
Vicat Softening Temp, Rate B/50	150	°C	ASTM D1525
HDT, 0.45 MPa, 6.4 mm, unannealed	133	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	122	°C	ASTM D648
Relative Temp Index, Elec Relative ⁽²⁾	110	°C	UL 746B
Temp Index, Mech w/impact Relative ⁽²⁾	105	°C	UL 746B
Temp Index, Mech w/o impact ⁽²⁾	110	°C	UL 746B

[illegible]

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Vent Depth	0.038 – 0.051	mm	

- (1)The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2)UL Ratings shown on the technical datasheet might not cover the full range of thicknesses, colors and regions. For details, please see the UL Yellow Card.
- (3)Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (4)Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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