



Robnor Resins

Performance
Through Innovation

Insulation Materials - Epoxy property guide

- PX314R**
- Certified flame retardancy to UL94-V0
 - Excellent electrical insulation properties
- PX439N**
- Certified flame retardancy to UL94-V0
 - Low coefficient of thermal expansion
 - High thermal conductivity version to PX314R.
 - Non toxic
- PX439HT**
- High temperature version of PX439N
- PX672C**
- Clear and low viscosity
 - Low shrinkage
- PX697C**
- Similar to PX804C with increased thermal shock resistance
- PX700K**
- Certified flame retardancy to UL94-V0
 - High adhesion and thermal shock resistance
- PX804C**
- Non-toxic alternative to PX700K
 - Certified flame retardancy to UL94-V0
 - Excellent electrical insulation characteristics
- PX820C**
- One part surface mount adhesive
 - High build and sealing properties

Robnor insulation materials offers:

- Environmental protection
- Electrical insulation
- Tamper proofing
- Thermal shock resistance
- Improved unit longevity and durability
- Heat transmission
- Improved chemical resistance
- WEEE & RoHS compliant

Applications:

- Transformers
- Capacitors
- Cable joints
- Control modules
- Sensors
- PCB encapsulation
- Connectors

See reverse for typical properties

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Product	Mixed Viscosity (m.Pas)	Hardness	Electric Strength ¹	Thermal expansion ²	Gel time (minutes) ³	Flame Retardant	Thermal Conductivity ⁴	Tg(°C)	Specific gravity
PX314R	90000 @ 25°C	D88	10 - 12	35 - 45	6 hours @ 25°C	YES	0.7	60 - 120	1.8
PX439N	3400 @ 25°C	D90	10 - 12	30 - 40	6 hours @ 25°C	YES	1.2	80 - 130	1.9
PX439HT	2500 @ 80°C	D90	18 - 20	30 - 40	6 hours @ 25°C	YES	1.3	135 - 145	1.8
PX672C	300 @ 25°C	D78	10 - 12	90 - 100	50 mins @ 25°C	NO	0.2	30 - 40	1.1
PX697C	30000 @ 25°C	D75	9 - 10	45 - 55	5 hours @ 25°C	YES	0.5	40 - 50	1.6
PX700K	12500 @ 25°C	D80	12 - 14	35 - 45	7 hours @ 25°C	YES	1.0	50 - 80	1.7
PX804C	15000 @ 25°C	D80	12 - 14	35 - 45	6 hours @ 25°C	YES	0.8	40 - 60	1.7
PX820C	Thixotropic	D80	12 - 14	60 - 80	20 mins @ 100°C	NO	0.3	85 - 90	1.1

1. kV/mm

2. ppm/°C

3. Will depend on mass, thickness of cross section and ambient temperature

4. W/m.K.

