

Real solutions. Real electronics choice.

In the performance-driven market of electrical and electronic components, our industry-leading product line meets the most stringent material requirements, offering the most competitive mechanical, thermal, electrical and flame-retardant properties.

Material	Flame Rating	RTI Electric	RTI Impact	RTI Strength	Chemical Resistance	Flowability (For Thin Walls)
Akulon® Nylon 6 & 6/6	5VA at 1.5mm	140°C	110°C	140°C	Good	Excellent
Amodel® PPA	5VA at 1.5mm	130°C	130°C	130°C	Excellent	Excellent
Arnite® PBT	5VA at 2.0mm	130°C	140°C	130°C	Good	Excellent
Arnite® PET	5VA at 2.1mm	130°C	120°C	125°C	Excellent	Excellent
Arnitel® COPE	V-0 at 1.5mm	50°C	50°C	50°C	Excellent	Good
EcoPaXX® Nylon 4/10	5VA at 1.5mm	130°C	65°C	65°C	Good	Excellent
Elexar® TPE	V-0 at 1.2mm	50°C	50°C	50°C	Fair	Good
ForTii® Nylon 4T	5VA at 1.5mm	140°C	130°C	130°C	Good	Excellent
Iupilon® PC	5VA at 2.5mm	120°C	120°C	125°C	Fair	Good
LG ABS	5VA at 2.0mm	85°C	85°C	85°C	Fair	Good
Lupox® PBT	5VA at 2.5mm	130°C	120°C	120°C	Good	Excellent
Lupoy® PC	5VA at 2.5mm	120°C	115°C	120°C	Fair	Good
Lupoy® PC/ABS	5VA at 1.5mm	60°C	60°C	60°C	Fair	Good
Ryton® PPS	5VA at 1.5mm	240°C	220°C	240°C	Excellent	Excellent
Stanyl® Nylon 4/6	5VA at 2.0mm	140°C	140°C	140°C	Good	Excellent
Vestamid® Htplus PPA	V-0 at 0.4mm	155°C	125°C	130°C	Excellent	Excellent
Vydyne® Nylon 6/6 & 66/6	5VA at 1.5mm	130°C	95°C	110°C	Good	Excellent

*RTI values based on grade(s) with the highest flame rating

Specialty and engineered thermoplastics for electrical/electronic needs now and in the future

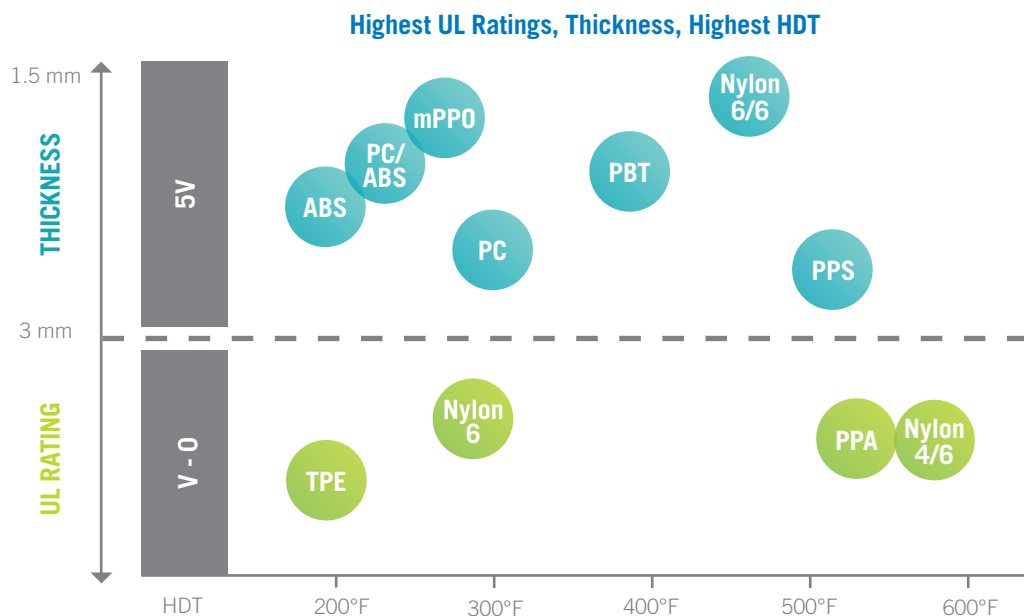
- ▶ Electrically conductive compounds for EMI and RFI shielding
- ▶ High-temperature thermoplastics compatible with surface-mount technology (SMT) and lead-free soldering processes for use in connectors and other components
- ▶ Thermally conductive compounds for thermal management, heating and cooling
- ▶ High-flow resins to meet miniaturization and thin-wall requirements
- ▶ RoHS- and WEEE-compliant compounds to meet “green” initiatives
- ▶ Soft-touch compounds for user comfort

Applications include:

- ▶ Connectors
- ▶ Switches
- ▶ Bobbins
- ▶ Capacitors
- ▶ Relays
- ▶ Housings
- ▶ Covers
- ▶ Shields
- ▶ Sockets
- ▶ Circuit Breakers

Your electronics choice

Specialty and engineering plastics for the electrical/electronics market.



Akulon® Ultraflow Nylon 6

- ▶ Up to 60 percent faster cycle times vs. standard nylon 6
- ▶ High flow for thinner walls
- ▶ Improved flow allows for longer flow lengths and greater cavitation

Amodel® PPA

- ▶ Outstanding electrical properties and high heat resistance allow for electronic components exposed to SMT processing
- ▶ High strength and stiffness and retains these properties in humid environments
- ▶ Excellent chemical resistance
- ▶ Good surface appearance

Arnite® PBT / Lupox® PBT

- ▶ Excellent dimensional stability
- ▶ High rigidity and strength
- ▶ Outstanding heat-aging performance
- ▶ High color stability at high temperatures
- ▶ Excellent resistance to weathering

ForTii® Nylon 4T

- ▶ High heat resistance, high stiffness, high strength, and good creep resistance leads to good pin retention
- ▶ High flowability enabling thin walled designs
- ▶ Temperature resistance up to 300°C for hot spots in lead-free reflow assemblies

Ryton® PPS

- ▶ Excellent flow and low shrinkage for precision molding of connectors and sockets
- ▶ Superior stiffness and mechanical integrity for reliable assembly
- ▶ Inherently flame retardant
- ▶ Suitable for all soldering processes (SMT, IR, lead-free)
- ▶ Excellent chemical resistance at elevated temperatures

Stanyl® Nylon 4/6

- ▶ Temperature resistance up to 280°C for soldering (IR and lead-free)
- ▶ Exceptional flow properties with high weld-line strength for more robust and reliable connectors than with LCPs
- ▶ High pin-retention strength
- ▶ Thin walls with no compromise in strength
- ▶ High stiffness and low creep
- ▶ Outstanding toughness, capable of withstanding high part-assembly forces

Techmer PM's Electrically Conductive Compounds

- ▶ Electrafil® compounds from TPM are formulated with additives to achieve the right balance of mechanical properties and resistivity for any point in the EM spectrum
- ▶ Available in a wide range of engineering materials, including PA6, PA6/6, PA12, ABS, PC, POM, PPS and more

VESTAMID® HTplus PPA

- ▶ High heat resistance and low moisture uptake result in great dimensional stability
- ▶ Ideal construction material for the manufacture of high temperature, molded interconnecting devices (MIDs) and products requiring lead-free soldering
- ▶ Melting point of 285°C and a HDT of more than 200°C
- ▶ Excellent chemical resistance

Vydyne® Nylon 6/6

- ▶ Short-term high temperature resistance (500°F/260°C), able to withstand lead-free solder temperatures without melting
- ▶ Strong, tough and durable
- ▶ High flow for faster cycle times
- ▶ Excellent dielectric strength and comparative tracking index combined with an inherent V2 flame rating, which can be increased to V0 and improved to 5VA in some grades
- ▶ Electrically neutral grades available (J grades)



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