

Keeping Current Matters

Chemical Resistance Data Elexar® TPEs for Electrical Applications

Chemical	Category	EL-8431	EL-8451	EL-8421	EL-8730R	EL-8712R	EL-1934G	EL-2934N	EL-3954-62	EL-3954-90
Hydrochloric acid 10%	Acid	Green	Green	Green	Green	Green	Green	Green	Green	Green
1-Propanol	Alcohol	Red	Red	Red	Red	Red	Red	Red	Red	Yellow
Antifreeze at 60°C (Ethylene glycol/water, 50/50)	Anti-freeze	Green	Green	Green	Green	Green	Green	Green	Green	Green
Potassium hydroxide 10%	Base	Green	Green	Green	Green	Green	Yellow	Green	Green	Green
Hydraulic brake fluid, DOT5, silicone	Fluid	Yellow	Green	Yellow	Yellow	Green	Yellow	Green	Yellow	Green
Hexane/Toluene, 70/30	Fuel	Red	Red	Red	Red	Red	Red	Red	Red	Red
Oil at 70°C (ASTM-3)	Oil	Red	Red	Red	Red	Red	Red	Red	Red	Red
Sea water (3.5% salinity)	Salt	Green	Green	Green	Green	Green	Green	Green	Green	Green
Water at 70°C	Water	Green	Green	Green	Green	Green	Green	Green	Green	Green

Elexar thermoplastic elastomers (TPEs) are well suited for wire and cable and other electrical products due to their outstanding electrical properties, excellent flexibility over a wide temperature range, and resistance to UV and weathering. Elexar TPEs are also resistant to a variety of solvents and chemicals, but it is necessary to pre-test the product in the actual end use environment prior to use.

Color Ranking - Chemical Effect
Green = Excellent - little or no effect
Yellow = Good - minor effect
Red = Poor - severe effect

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Teknor Apex Company
 505 Central Avenue, Pawtucket, RI 02861
 Phone: 401-725-8000 Toll Free: 800-556-3864
 www.teknorapex.com tpe@teknorapex.com

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