

DAI-EL® T-530

DAI-EL® T-530 is a thermoplastic elastomer that has rubber-like elasticity yet processes like a thermoplastic. DAI-EL® T-530 is transparent and low in extractibles. It is USP Class VI certified. DAI-EL® T-530 exhibits excellent physical properties and chemical resistance without crosslinking, but where sealing ability is required it may be crosslinked by e-beam radiation.

Properties*	Value
Appearance	Translucent Pellets
Melting Point approx. (°C)	230
Flow rate approx. (g/10 min)	22
Specific gravity	1.89
Features	Good transparency, excellent chemical resistance

*Typical properties are not suitable for specification purposes.

Typical Applications

Tubing, sheets, o-rings and other parts for chemical, food and pharmaceuticals contact

Packaging & Units

Packaged inside of polyethylene bag and fiber drum
25 kg

Precautions in Handling

- (1) Store and use all fluoroelastomers in a well-ventilated area.
- (2) Do not smoke in areas contaminated with dust from fluoroelastomers.
- (3) Avoid eye contact.
- (4) After handling, wash any skin that came in contact with the product with soap & water.

Potential hazards, including evolution of toxic vapors, exist during compounding or processing under high temperatures. Before processing Daikin fluoroelastomer, consult the SDS (Safety Data Sheet) and follow all label directions and handling precautions. Read and follow all directions from other compound ingredient suppliers. Also, mixing agents that contain metallic particulate such as powdered aluminum can rapidly decompose at high temperature, therefore do not use metallic particulate as mixing agent.

Standard Composition and Characteristics of DAI-EL® T-530

Properties		
Hardness (Shore A)		67
Pyrolysis initiation temperature	°C (°F)	380 (716)
Thermal conductivity	(cal/cm·sec·°C)	3.6 × 10 ⁻⁴
Specific heat	(cal/g·°C)	0.3
Low temperature torsion test (Gehman) T50	(cal/g·°C)	-9
Tensile strength	(MPa)	10.8
Elongation at break	(%)	650
Modulus at 100% elongation	(MPa)	1.9
Compression set, 70h @ 150 °C	(%)	
Original		-
10 KGy Radiation		65
30 KGy “		57
100 KGy “		34
150 KGy “		23
Electrical properties		
Volume resistivity	(Ω-cm)	5 × 10 ¹³
Dielectric breakdown strength	(kV/mm)	14
Dielectric constant	(23°C, 103Hz)	6.6

MEDICAL USE: This product is not specifically designed or manufactured for use in implantable medical and/or dental devices. We have not tested it for such application and will only sell it for such use pursuant to contract containing specific terms and conditions required by DAIKIN.

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