

Thermorad

General purpose wire and cable jacket material

Fax-on-Demand: (800) 260-9099
(650) 361-6523

Before ordering check with
factory for most current data.



Applications

Thermorad is a general purpose jacket material that is highly flame-retardant and has an overall balance of physical and chemical properties. It is suitable for use in nuclear, biological, and chemical (NBC) decontamination. Thermorad cables find widespread use in industrial, commercial, and military applications. These include railways, commercial vehicles, medical equipment, communication equipment, and commercial electronics. Thermorad cable jackets are compatible with Raychem polyolefin tubings, molded parts, and adhesives (for more details, contact Raychem).

Features/Benefits

- Temperature rating of -55°C to 125°C .
- Highly flame-retardant.
- Resistant to fuels, oils, and greases.
- Resistant to NBC decontaminant.
- UL recognized.

Product Characteristics*

Mechanical	Tensile strength	17.5 MPa (min.)	
	Elongation	250% (min.)	
	Abrasion resistance	300 scrapes min. (1.6-kg/3.5-lb load WCD 51/1602)	
	Cold bend ($-55^{\circ}\text{C} \pm 3^{\circ}\text{C}$)	No cracking	
Thermal aging	Heat age	120 h at 170°C	
	Heat shock (4 h at $300^{\circ}\text{C} \pm 3^{\circ}\text{C}$)	No cracks, drips or flowing, 6 mm (0.24 in) total shrinkage in 300 mm (11.8 in)	
Fluid resistance	Immersion	% retention (min.)	Elongation
	IRM902 oil (72 h at 50°C)	60	60
	Skydrol oil (72 h at 50°C)	60	60
Electrical	Insulation resistance	20 megohms km (min.)	
Other	Flammability at 45°C	30 s (max.) afterburn 75 mm/3 in. (max.) burn length	
	Acid gas	4% HCl equivalent (max.)	

*Jacket properties per Raychem specification WCD 3301.

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