

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

Before ordering check with factory for most current data.

Raythane, Neoprene, Rayolin, AFR

Specialized wire and cable jacket material

Applications

In addition to the preferred cable jacket materials, Raychem offers a variety of cable jackets for specialized applications. For example, specialized materials are available for extreme low-temperature flexibility or for enhanced abrasion resistance. Noncrosslinked materials are available for cable splicing or overmolding. For more details on these materials contact Raychem.

Features/Benefits

Raythane

- -25°C to 80°C.
- Mechanically tough.
- Can be overmolded.
- Available as flame-retardant (Raythane FR) and non-flame-retardant (Raythane C).

Neoprene

- -55°C to 90°C.
- Extreme flexibility.
- Highly flexible at low temperatures.

Rayolin

- -55°C to 95°C.
- Excellent long-term water immersion.
- Can be overmolded (uncrosslinked).
- Compatible with Raychem's underwater cable splices.
- Available crosslinked and uncrosslinked.

AFR

- -40°C to 105°C.
- Abrasion resistant.
- Fuel resistant.
- Flame-retardant.



Product Characteristics

		Raythane C	Neoprene	Rayolin (XL)*	AFR
Mechanical	Tensile strength (MPa) min./ psi	25/2500	10	14/1800	12
	Elongation (%) min.	400	200	250	150
	Abrasion resistance (1.6-kg/3.5-lb load) min.	600 scrapes	30 scrapes	300 scrapes	400 scrapes
	Cold bend	-25°C	-55°C	-55°C	-40°C
Thermal aging	Endurance (10000 h)	80°C	90°C	95°C	105°C
Fluid resistance	Immersion	% retention (min.) of tensile strength and elongation			
	Diesel fuels (24 h at 50°C)	60	50	-	60
	IRM902 oil (24 h at 100°C)	60	50	60	60
Electrical	Insulation resistance/(megohms/km)	1	5	100	100
Other	45°C flammability	Pass	Pass	-	Pass

Note: For further details refer to these Raychem specifications:

Raythane: WCD-3306 (C); WCD 3310 (FR).

Rayolin: WCD-51/1601.

AFR: WCD-51/1619.

*XL = Crosslinked.

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Neoprene is a trademark of E. I. du Pont de Nemours and Company.

Users should independently evaluate the suitability of the product for their application.