

Compound RDX 3155-IN-F

Very flexible radiation crosslinkable high performance flame retardant compound for insulation and jacketing applications for 150 C continuous operating temperature

Compound properties

RDX 3155-IN-F is a very flexible high grade radiation crosslinkable compound, offering excellent mechanical and electrical properties. The excellent extrudability and the high temperature rating makes this compound an ideal choice for the insulation of heat-resistant wires and cables for applications in areas where wires and cables should withstand the high temperatures in small compartments.

Features

- Able to withstand temperatures of 280 C during a short period, without detrimental effect
- Safer cable and wire constructions during overload conditions
- Thinner and lighter cable constructions compared to conventional constructions
- Improved routing ability
- Continuous operating temperature from – 50 C to + 150 C
- It combines a thin wall thickness of the insulation (0.50 mm), a low specific gravity and a high current carrying capacity.
- Compatible to common impregnation resins and varnishes
- Good abrasion resistance
- Highly resistant to ozone, weathering, hydrolysis and heat pressure
- Easy strippable

Specifications

- UL 3288, 3289, 3398, 3456, 3470, 3575, CSA CL 1503, CSA AWM I A/B, SAE J-1127 STX.

Compound Applications

- Lead wires for coil connections, class F motors and transformers, pumps, solenoids, sensor wires, flexible battery cables and wire insulation of low voltage multicore cables for road vehicles.

Properties	Test Method	Typical value
<i>Physical properties</i>		
Specific gravity	ISO 1183	1.22 gr/cm ³
Tensile strength	IEC 811-1-1	> 16 Mpa
Elongation at break	IEC 811-1-1	> 300%
Elongation at break @ - 50 C	IEC 811-1-1	> 30%
Abrasion resistance		Excellent
<i>Electrical properties</i>		
Dielectric constant (50 Hz, 20 C)	ASTM D 150	3
Volume resistivity	ASTM D 257	10@15 ohm.cm
Dielectric strength	ASTM D 149	25 kV/mm

