Thermoset elastomeric jacketing compound

E5328 is a thermoset sheathing and jacketing material based on EPDM intended for low voltage applications <5kV. It offers excellent water swell and oil swell properties and thermo mechanical properties.

Specifications

E5328 meets the requirements as below, when optimal processing extrusion and end testing procedure are used:

- Customer specifications

Typical physical properties:

Property	Test method	Unit	Typical Value
Density at 23°C	ASTM D1928	g/cm³	1,31
Moisture	QAHC-10420, (Karl Fischer method)	PPM	< 800
Tensile strength	ASTM D412, die C	PSI	2100
Elongation	ASTM D412, die C	%	170
50% modulus	ASTM D 412, die C	PSI	748
Oil immersion test	IEC 60811-1-1		approved
Mooney viscosity ML (1+4) at 121°C	ISO 289	MU	24

Aged in oil (70 hrs at 300°F):

Property	Test method	Unit	Typical Value
Tensile strength	ASTM D 412, die C	PSI	1531
Elongation	ASTM D 412, die C	%	120
Volume swell	ASTM D 471	%	49

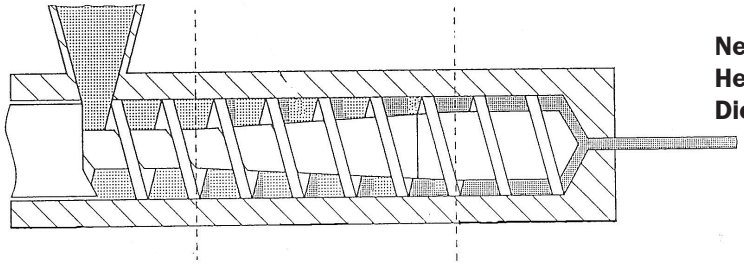
Aged in water (70 hrs at 212°F):

Property	Test method	Unit	Typical Value
Tensile strength	ASTM D 412, die C	PSI	1911
Elongation	ASTM D 412, die C	%	153
Volume swell	ASTM D 471	%	0,2

Processing conditions

E5328 provides an excellent surface finish when processing conditions are optimised for the actual processing equipment. Actual conditions will vary according to the equipment used, but as a guide we recommend following extrusion conditions:

Desiccant dryer: < 40 °C
Hopper: -



Neck: 90-120°C
Head: 90-120°C
Die: 90-120°C

Screw cooling: -°C
Comments: -

Extruder
Hopper inlet: RT (room temperature)
Barrel: 50-110°C

Delivery

Form: Pellets
Package: 600 kg octabin

Storage/Handling

The material is packed, secured and sealed fulfilling the stated properties above. The material shall be stored in sealed container and under dry and tempered conditions to obtain sustainable performance.

Safety

Safety data sheet is available upon request.

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