Electropren™ 2030

Liquid Silicone Rubber

Product Description

Electropren 2030 is a two-component liquid silicone rubber for injection molding processes. It is particularly developed for the manufacturing of cable joints and terminations. Electropren 2030 LSR contains a new addition curing catalyst allowing significantly lower curing temperatures and reduced curing times compared to traditional LSR catalyst systems.

Key Features and Typical Benefits

Vulcanizates consisting of **Electropren 2030** are distinguished by the following properties:

- Very fast curing
- Ability to cure at reduced temperatures
- Good mechanical properties (tear, tensile strength & elongation)
- Fast hydrophobicity transfer and hydrophobicity recovery
- Excellent dielectric behavior over a wide range of temperatures
- Very good flowability
- High stability and flexibility at low temperatures
- Excellent stability to ozone and ultraviolet light
- Not readily combustible, does not melt or drip
- Easily pigmentable with LSR color pastes

Typical Physical Properties

Typical properties of the rubber:		**A Component**	**B Component**
Color		colorless	colorless
Viscosity in Pas gamma = 10 s^{-1} at 20 °C	DIN 53018	430	390
The pot-life of the mixture of the two components (closed vessel) at 20 °C is three days. Increased temperatures reduce the pot-life. Typical properties of the vulcanizate: Mixing ratio of components, A:B = 1:1. Vulcanization: 10 min. 175 °C, 4 hours 200°C post cure			
Density	DIN 53 479 A	g/cm3	1.10
Shore A hardness	DIN 53 505		29
Tensile strength	DIN 53 504 S2	N/mm2	9.4
Elongation at break	DIN 53 504 S2	%	820
Tear strength	ASTM D 624 die B	N/mm	14
Volume resistivity	IEC 62631-3-1	Ohm cm	$5*10^{15}$
Dielectric strength (2 mm)	IEC 60243-1	kV/mm	22
Dielectric constant	IEC 63621-2-1		2.7
Dissipation factor	IEC 63621-2-1		0.001

Typical properties are average data and are not to be used as, or to develop, specifications.

Potential Applications

- Cable connectors, fittings and terminations

INCI Name

Nomenclature - NA

System Components

For mentioning multiple components involved (If applicable) - NA

Processing Recommendations

Ready-to-use mixtures (of the components A and B) are fed directly to the injection- molding machine from the original drums by means of a metering and mixing unit. The mixture, consisting of the two components in ratio 1:1, is injected into the heated mold. At mold temperatures of 80 - 130 ° C, the addition-cross linking silicone rubber vulcanizes free of dissociation products within a few minutes. High curing speed and special metering equipment permit the manufacture of large-volume parts like cable connectors and terminations.

Suggested Formulations

Tried and tested for reference - NA

Product References

Mention of one/multiple references

General Considerations for Use

NA

Containers

Electropren 2030 is available in 200 kg drums.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around- the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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