

Addisil™ 1x0 E Series

Heat Curable Rubber

Description

The Addisil 1x0 E series is a one-component heat curable rubber to consider for making elastomers (HCE) with a hardness range between 40 and 70 Shore A for medical applications. This series is based on a platinum cure system, which makes it an excellent candidate for high value extrusion applications where regulatory compliance, transparency, mechanical performance and/or productivity are important such as the manufacture of extruded transparent tubing and profiles for use in healthcare applications.

Key Features and Typical Benefits

- High transparency, no yellowing
- Excellent mechanical properties
- Dry, non-stick surface
- Odourless during processing and in final application
- Fast curing
- One-component, ready to use
- Shelf life of 3 months from date of manufacturing when stored properly

Typical Physical Properties

<u>Typical Physical Properties of the Vulcanized Rubber:</u> Test results on moulded slabs, Vulcanized conditions: 10 min. @ 175 °C Post cure: 4h @ 200 °C in hot air	Addisil 1x0 E Series			
	140 E	150 E	160 E	170 E

Density	BS ISO 2781: 2010	g/cm ³	1.15	1.16	1.18	1.20
Hardness	BS ISO 7619-1: 2010	Shore A	45	52	61	71
Tensile strength	BS ISO 37: 2011	MPa	10	10	10.5	9.5
Elongation at break	BS ISO 37: 2011	%	700	650	530	470
Tear Strength	ASTM D624 B	kN/m	35	36	32	32

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

Regulatory Compliances

	Addisil 1x0 E Series			
	140 E	150 E	160 E	170 E
BfR	Yes	Yes	Yes	Yes
FDA	Yes	Yes	Yes	Yes
USP Class VI	1)	1)	Yes	1)
DIN ISO 10993	Yes	1)	Yes	Yes
EUR. Pharmacopoeia 3.1.9	Yes	Yes	Yes	Yes

1) While this grade has not been fully tested against the standard, it has similar formulation and chemical composition as the grades that have passed the applicable testing.

The ingredients used to formulate these products are compositionally compliant with 21 CFR 177.2600, rubber articles intended for repeated use and the BfR recommendation XV “Silicone”. It is the responsibility of the user to determine that the finished product complies with the provisions of 21 CFR 177.2600 and BfR recommendation XV under their specific manufacturing procedures. See 21 CFR 177.2600 and BfR recommendation for details of extractive limitations and other requirements.

General Considerations for Use

Cure inhibition: Being a platinum cure mechanism, the following contaminants can cause cure inhibition:

- Amine derivatives: organic and inorganic basic compounds
- Sulphur products: anti-oxidants from plastics (thio compounds and sulphides)
- Metal soaps: mould release agents or anti-acids as Zn or Ca stearate from Polyolefins
- Tin compounds
- Phosphorous products: anti-oxidants from plastics (phosphines and phosphates)

Packaging

The **Addisil 1x0 E** series is currently available in 25 kg, 250 kg, 500 kg cardboard boxes.

Patent Status

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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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