

Addisil™ Industrial 10x0 E Series

Heat Curable Rubber

Description

The Addisil Industrial 10x0 E (Extrusion) series is a one-component heat curable rubber to consider for making elastomers (HCE) with a hardness range between 40 and 80 Shore A for industrial 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 oven door profiles and tubing for food 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>			Addisil Industrial 10x0 E Series				
Test results on moulded slabs, Vulcanization conditions: 10 min at 175 °C Post cure: 4h at 200 °C in hot air			1040 E	1050 E	1060 E	1070 E	1080 E
Density	BS ISO 2781	g/cm ³	1.13	1.14	1.15	1.17	1.21

Hardness	BS ISO 7619-1	Shore A	40	50	60	72	80
Tensile Strength	BS ISO 37	N/mm ²	11	11.5	11	11	8.5
Elongation at Break	BS ISO 37	%	800	800	600	450	350
Tear Strength	ASTM D624 B	kN/m	35	40	37	35	24

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

Regulatory Compliances

The ingredients used to formulate this product 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 Industrial 10x0 E series is currently available in 25 kg, 250 kg and 500 kg cardboard boxes.

Patent Status

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Product Safety, Handling and Storage

For literature and technical assistance, visit our website at: www.momentive.com

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