Technical Data Sheet

Addisil™ 2070 E

Description

The Addisil 20X0 E series is a two-component heat curable rubber for making elastomers (HCE) with a hardness range between 50 and 80 Shore A for industrial applications. This series is based on a platinum cure system, which is particularly suitable for high value extrusion applications where regulatory compliance, transparency, mechanical performance and/or productivity are important. Application examples are oven door profiles and tubing for food applications.

Key Features and Benefits

- Good transparency, no yellowing
- Good mechanical performance
- Dry, non-stick surface
- Odourless during processing and in its application
- Fast curing
- Long shelf life of 6 months for the single components if stored appropriatelyM
- Very long pot life of 2 to 4 weeks for the mixed components
- Suitable for compliance with the food contact regulations FDA 21 CFR 177.2600 and the BfR section XV recommendations
- KTW: German Water Regulation. A representative sample has passed the test for tubes, fittings, seals and strorage systems (cold and warm)
- WRAS (BS 6920). A representative sample has passed the test (cold and warm)
- W270: Microbiological growth test. A representative sample has passed the test

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

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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.

Typical Physical Properties

Typical Properties of the Vulcanized Rubber: Test results on moulded slabs, (mix ratio A:B = 1:1) Vulcanization conditions: 10 min. 175°C post cured: 4h @ 200°C in hot air			**Addisil* 20X0 E**			
			2050 E	**2060 E**	**2070 E**	**2080 E**
Density	DIN 53 479 A	g/cm^3	1.15	1.17	1.17	1.18
Shore A hardness	DIN 53 505		48	61	72	81
Tensile strength	DIN 53 504 S2	N/mm^2	10	11	11	10
Elongation at break	DIN 53 504 S2	%	700	550	470	400
Tear strength	ASTM D 624 die B	N/mm	32	34	33	30
Comp. Set 22h at 175°C	DIN 53 517	%	25	20	25	20

Typical Product Data should not be used as specifications. For assistance and specifications please contact Momentive Performance Materials.

Processing Recommendations

When the two components are mixed together at a 1:1 mixing ratio, the pot life of the compound is approximately 2 to 4 weeks. During storage, the mix should be wrapped in polythene foil.

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:

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anti-oxidants from plastics (phosphines and phosphates)

Packaging
The Addisil 20X0 E series is available in 25kg and 500kg cardboard boxes.

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

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