

Addisil™ 2070 E

Rubber

Momentive Performance Materials Inc.

Message:

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 appropriately

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 storage 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

| General Information | | | |
|---------------------|--------------------------------------|-------------------|-------------|
| Features | Fast Cure | | |
| | Food Contact Acceptable | | |
| | Heat Cure | | |
| | Low to No Odor | | |
| | Medium Clarity | | |
| | Non-Stick | | |
| Uses | Industrial Applications | | |
| | Non-specific Food Applications | | |
| | Profiles | | |
| | Tubing | | |
| Agency Ratings | BfR Food Contact, Unspecified Rating | | |
| | FDA 21 CFR 177.2600 | | |
| | KTW Unspecified Rating | | |
| | WRAS Unspecified Rating | | |
| Appearance | Clear/Transparent | | |
| Processing Method | Extrusion | | |
| | Profile Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.17 | g/cm ³ | DIN 53479 |

| Hardness | Nominal Value | Unit | Test Method |
|--------------------------------|--------------------------|------|-------------|
| Durometer Hardness (Shore A) | 72 | | DIN 53505 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength | 11.0 | MPa | DIN 53504 |
| Tensile Elongation (Break) | 470 | % | DIN 53504 |
| Tear Strength ¹ | 33.0 | kN/m | ASTM D624 |
| Compression Set (175°C, 22 hr) | 25 | % | DIN 53517 |
| Thermoset | Nominal Value | Unit | |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 1.0 | | |
| Part B | Mix Ratio by Weight: 1.0 | | |
| Pot Life | 20000 to 40000 | min | |
| Shelf Life | 26 | wk | |
| Post Cure Time (200°C) | 4.0 | hr | |
| Additional Information | Nominal Value | Unit | |
| Vulcanization (175°C) | 10.0 | min | |
| NOTE | | | |
| 1. | Die B | | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

