

Addisil* IND 2050 E

Description

The Addisil IND 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 Typical 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

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.

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 IND 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:
anti-oxidants from plastics (phosphines and phosphates)

Packaging

The Addisil IND 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.

Contact Information

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

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

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*Addisil is a trademark of Momentive Performance Materials Inc.1033

Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.