

## Addisil™ 440 E

### Description

The Addisil\* 4X0 E series is a one-component heat curable rubber for making elastomers (HCE) with a hardness range between 40 and 80 Shore A for medical 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. The series is especially suitable for 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 its application
- Fast curing
- One-component, ready to use
- Shelf life of 3 months from date of manufacture

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 compound   |                  |                   | Addisil 4X0 E |       |       |       |       |
|--|------------------|-------------------|---------------|-------|-------|-------|-------|
| Density  | DIN 53 479 A     | g/cm <sup>3</sup> | 440 E         | 450 E | 460 E | 470 E | 480 E |
|  |                  |                   |               |       |       |       |       |
| Typical properties of the vulcanized rubber:<br>Test results on moulded slabs.<br>Vulcanization conditions: 10 mins. @ 175°C<br>Post cured: 4 hrs. @ 200°C in hot air. |                  |                   | Addisil 4X0 E |       |       |       |       |
|  |                  |                   | 440 E         | 450 E | 460 E | 470 E | 480 E |
| Hardness   | DIN 53 505       | Shore A           | 40            | 50    | 60    | 70    | 80    |
| Tensile Strength   | DIN 53 504 S2    | N/mm <sup>2</sup> | 10            | 10    | 10    | 10    | 8     |
| Elongation at break  | DIN 53 504 S2    | %                 | 800           | 800   | 520   | 425   | 350   |
| Tear Strength  | ASTM D 624 die B | N/mm              | 36            | 36    | 36    | 36    | 24    |

| Registration compliances | Addisil 4X0 E SERIES |       |       |       |       |
|--------------------------|----------------------|-------|-------|-------|-------|
|                          | 440 E                | 450 E | 460 E | 470 E | 480 E |
| BfR                      | x                    | x     | x     | x     | x     |
| FDA                      | x                    | x     | x     | x     | x     |
| USP Class VI             | x                    |       |       |       |       |
| DIN ISO 10993            | x                    | x     | x     | x     | x     |
| Eur. Pharmacopeia 3.1.9  |                      |       |       |       |       |

The typical data is only intended as a guide and should not be used in preparing specifications.

### Patent Status

여기에 포함된 어떠한 내용도 관련 특허가 없음을 의미하거나 특허 소유자의 허가 없이 특허에서 다루는 발명을 실행하기 위한 허가, 유도 또는 권고를 구성하는 것으로 해석되어서는 안됩니다.

### 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



**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™는 Momentive Performance Materials Inc.의 상표입니다.

The use of the “™” symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.

