

# Addisil™ 462 E

Rubber

Momentive Performance Materials Inc.

## Message:

The Addisil 4X2 E series is a two-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 Benefits-

High transparency, no yellowing

Excellent mechanical properties

Dry, non-stick surface

Odourless during processing and in its application

Fast curing

Long shelf-life of 6 months for the single component if stored appropriately

Very long pot life of 2 to 4 weeks for the mixed components

| General Information          |                                      |                   |             |
|------------------------------|--------------------------------------|-------------------|-------------|
| Features                     | Fast Cure                            |                   |             |
|                              | Food Contact Acceptable              |                   |             |
|                              | Heat Cure                            |                   |             |
|                              | High Clarity                         |                   |             |
|                              | Low to No Odor                       |                   |             |
|                              | Non-Stick                            |                   |             |
| Uses                         | Medical/Healthcare Applications      |                   |             |
|                              | Profiles                             |                   |             |
|                              | Tubing                               |                   |             |
| Agency Ratings               | BfR Food Contact, Unspecified Rating |                   |             |
|                              | FDA 21 CFR 177.2600                  |                   |             |
|                              | ISO 10993                            |                   |             |
| Appearance                   | Clear/Transparent                    |                   |             |
| Processing Method            | Extrusion                            |                   |             |
|                              | Profile Extrusion                    |                   |             |
| Physical                     | Nominal Value                        | Unit              | Test Method |
| Density                      | 1.15                                 | g/cm <sup>3</sup> | DIN 53479   |
| Hardness                     | Nominal Value                        | Unit              | Test Method |
| Durometer Hardness (Shore A) | 60                                   |                   | DIN 53505   |
| Elastomers                   | Nominal Value                        | Unit              | Test Method |
| Tensile Strength             | 10.0                                 | MPa               | DIN 53504   |
| Tensile Elongation (Break)   | 520                                  | %                 | DIN 53504   |

|                            |                |      |           |
|----------------------------|----------------|------|-----------|
| Tear Strength <sup>1</sup> | 36.0           | kN/m | ASTM D624 |
| Thermoset                  | Nominal Value  | Unit |           |
| 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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