

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 ³	440 E	450 E	460 E	470 E	480 E
Typical properties of the vulcanized rubber: Test results on moulded slabs. Vulcanization conditions: 10 mins. @ 175°C 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 ²	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

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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

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