

Addisil™ 442 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	1.12	g/cm ³	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	10.0	MPa	DIN 53504
Tensile Elongation (Break)	800	%	DIN 53504

Tear Strength ¹	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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