

Addisil™ 452 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	Heat vulcanization		
	Fast curing		
	The smell is low to none		
	Definition, high		
	Compliance of Food Exposure		
	No stickiness		
Uses	Pipe fittings		
	Profile		
	Medical/nursing supplies		
Agency Ratings	BfR food contact, not rated		
	FDA 21 CFR 177.2600		
	ISO 10993		
Appearance	Clear/transparent		
Processing Method	Extrusion		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	DIN 53479
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		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 - 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.	B mould		

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