

TyrFil® R-2

Polyurethane (MDI)

Pathway Polymers

Message:

TyrFil® R-2 is a two-component system consisting of Catalyst blend (side A) and Prepolymer (side B). It is designed to be used as a binder for ground rubber for filling tires. Total amount of filler is up to 35% by weight in cured material.

General Information		
Uses	Tire Repair	
Appearance	Brown	
Forms	Liquid	
Hardness	Nominal Value	Test Method
Durometer Hardness		
Shaw A ¹	36 - 40	ASTM D2240
Shaw A	23 - 27	
Elastomers	Nominal Value	Unit
Tensile Strength (Break)	1.20	MPa
Tensile Elongation (Break)	300	%
Tear Strength		
-- ²	6.80	kN/m
Cracking	0.70	kN/m
Bayshore Resilience	30 - 45	%
Thermoset	Nominal Value	Unit
Shelf Life	52	wk
Thermoset Mix Viscosity		
25°C ³	250 - 300	cP
25°C ⁴	250 - 350	cP
Gel Time	20.0 - 25.0	min
Cure Time (25°C)	1.0	day
Mixing Ratio		
-- ⁵	100:101	
-- ⁶	1:1	
Processing Temperature ⁷	21 - 27	°C
Fill Analysis	Nominal Value	Unit
Melt Density		
25°C ⁸	1.08	g/cm ³
25°C ⁹	1.05	g/cm ³
Additional Information	Nominal Value	Unit

Special Instructions: Filler can be added direct into mixing head of pouring machine or to each side prior to use. Do not store side B (Prepolymer) with filler longer than 4 to 6 hours.

NOTE

1.	Filled material, 30% ground rubber
2.	C mould
3.	Prepolymer (side B)
4.	Catalyst (side A)
5.	by weight ($\pm 5\%$)
6.	by volume ($\pm 5\%$)
7.	for both Catalyst (side A) & Prepolymer (side B)
8.	Prepolymer (side B)
9.	Catalyst (side A)

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