AROPOL™ CF 51532-14 Resin

Performance Materials

Overview

AROPOL CF 51532-14 resin is a low viscosity, promoted resin that can be cured using both MEKP and BPO curing systems.

Typical Liquid Resin Properties

Property at 25°C (77°F) unless otherwise marked	Value	Unit	Notes
Brookfield Viscosity	140	Cps (mPas)	LV#1 @ 30 rpm
Percent Solids	60	%	

Typical Liquid Resin Curing Properties

Property	MEKP Cure	BPO Cure	Unit
Room Temperature Gel (RTG) time	5	10	Minutes
Gel to Peak Exotherm Time	6		Minutes
Peak Exotherm Temperature	330		°F

Room Temperature Gel time tested @ 77°F/25°C
MEKP Cure: 1 gram Cadox D50 in 100 grams of resin.
BPO Cure: 0.36 gram BPO crystals in 1 gram of Styrene, added to 99 grams of resin.

Typical Cured Resin Properties

Property at 25°C (77°F) unless otherwise marked	Value	Unit	Test Method
Tensile Strength	8200	psi	ASTM D638
Tensile Modulus	490	ksi	ASTM D638
Tensile Elongation at Break	2.0	%	ASTM D638
Flexural Strength	16,100	psi	ASTM D790
Flexural Modulus	480	ksi	ASTM D790
Heat Deflection Temperature	135	°F	ASTM D648

Clear castings cured using 1% BPO and 0.2 TBPB and
Heat cured at 54°C for 30 minutes, 71°C for 1 hour, 82°C for 1 hour and final 2 hours at 150C..

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Standard package
Steel drum with net weight of 220 kgs (485 lbs).

Commercial Warranty
Three months from the date of shipment, when stored in accordance with the storage conditions stated below.

Storage
All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperatures will extend product stability. Store at temperatures below 25°C / 77°F. Avoid exposure of storage tanks and storage containers to heat such as direct sunlight, steam pipes, and other heating sources.

Containers: Keep containers sealed to prevent moisture pick-up and monomer loss. Do not store drums and other small containers outdoors. Mild mixing is recommended after prolonged storage. Rotate stock.

Bulk Storage: Consult with your ALTA Performance Materials account representative for a guide to best practices on bulk resin storage and handling.

Notice
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Since the user's product formulations, specific use applications and conditions of use are beyond the control of ALTA Performance Materials, ALTA Performance Materials makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

ALTA Performance Materials requests that the user reads, understands, and complies with the information contained herein and the current Safety Data Sheet.

Commercial contacts by region available at:

https://altapm.com/contact/

[i]All properties are typical values. Results may vary. Typical values are not a guaranteed analysis of any specific lot or specification.
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