Technical Datasheet

AROPOL™ 7241 T Series Corrosion Resistant, Isophthalic Resin

Description

AROPOL 7241 T series resin is a thixotropic, promoted, corrosion resistant isophthalic polyester. The resin has excellent corrosion resistance, high strength and high heat deflection temperature.

Special Applications

The raw materials used in the manufacture of the resins stated below are listed as acceptable in FDA regulation Title 21 CFR 177.2420 for repeated use in contact with food, subject to the user's compliance with the prescribed limitations of that regulations.

These resins are MIL-R-7575C Grade A capable.

Resins complying:
- Aropol 7241 T-15
- Aropol 7241 T-25
- Aropol 7241 T-40

Applications and Use

AROPOL 7241 T series resins can be used for hand lay-up and spray-up applications such as fabrication of fume hoods and ducts, tanks, pipe, storage tank repairs and linings in applications where corrosion resistance and FDA food application resins are required.

Alternative Products

A non-thixotropic and non promoted version of this resin series is available as AROPOL 7241 resin. For applications requiring greater corrosion resistance, contact Ashland at Derakane@Ashland.com.

Typical Liquid Resin Properties

Property[1] at 25°C (77°F)	Aropol 7241 T-15	Aropol 7241 T-25	Aropol 7241 T-40	Unit
Non-Volatiles Content	54	54	54	%
Viscosity, Brookfield, 3@60 rpm	450	450	450	mPas (cps)
Weight per Gallon	9.0	9.0	9.0	Lb/gallon
Gel Time with 1.25% DDM-9	14	25	45	minutes
Total Time	28	40	65	minutes
Peak Exotherm	380 (193)	375 (191)	370 (188)	°F (°C)
Thix	1.6	1.6	1.6	1.6

Technical Datasheet

AROPOL™ 7241 T Series Corrosion Resistant, Isophthalic Resin

(1) Properties are typical values and should not be considered a guaranteed analysis of any specific lot.

Additional Gel Time Information for Aropol 7241 T-15

Temperature	1.25% DDM-9	1.88% DDM-9
Room Temperature of 60°F (16°C)	27	15
Room Temperature of 70°F (21°C)	19	11
Room Temperature of 80°F (27°C)	12	7
Room Temperature of 90°F (32°C)	7	4.5

Typical Mechanical Properties

Cured Casting Property(1) at 25°C (77°F)	Value (US)	Unit	Method
Tensile Strength	10,700	psi	ASTM D638
Tensile Modulus	540	ksi	ASTM D638
Tensile Elongation	2.4	%	ASTM D638
Flexural Strength	19,000	psi	ASTM D790
Flexural Modulus	590	ksi	ASTM D790
Heat Deflection Temperature	210	°F	ASTM D648
Heat Deflection Temperature	99	°C	ASTM D648
Barcol Hardness	45	units	ASTM D2538

Certificates and Approvals

The manufacturing, quality control and distribution of products, by Ashland Performance Materials, comply with one or more of the following programs or standards: ISO 9001, Responsible Care, ISO 14001 and OHSAS 18001.

Standard Package

Steel Drum with Net Weight of 220 Kg (485 Lb)
or Bulk Wagon

Commercial Warranty

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

Technical Datasheet

AROPOL™ 7241 T Series Corrosion Resistant, Isophthalic Resin

Storage

Drums - Store at temperatures below 25°C (77°F). Storage life decreases with increasing storage temperature. Avoid exposure to heat such as direct sunlight or steam pipes. To avoid contamination of the product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock.

Bulk - Refer to Ashland's Bulk Storage and Handling Manual for Polyesters and Vinyl Esters. A copy of this may be obtained from Ashland at +1.614.790.3333 or 800.523.6963.

All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperatures will extend product stability.

Notice

All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which Ashland assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

Since the user's product formulations, specific use applications and conditions of use are beyond the control of Ashland, Ashland 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.

Ashland requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.