Technical Datasheet

INEOS Composites

AROPOL™ MR 14029 Thickenable Polyester Resin

Description

AROPOL MR 14029 resin is a medium viscosity, high reactivity polyester resin. The resin is thickenable and has good resin UV properties.

- Thickenable
- High reactivity
- Good detergent resistance

Applications and Use

AROPOL MR 14029 resin is recommended for all types of injection or compression molding. The resin is thickenable and can be used in sheet molding compound (SMC).

This resin can provide excellent weathering performance and is processing friendly for use in pultrusion operations. The resin is frequently used in UV resistant pultrusion parts such as exterior shapes, cable trays, and ladder rails.

Typical Liquid Resin Properties

Property(1) at 25°C (77°F)	Value	Unit
Percent Solids	62	%
Viscosity, Brookfield, spindle #3 @ 20 rpm	2500	mPas (cps)
Specific Gravity	1.08	
Acid Value (solution)	12.5	
Monomer	38	%
Appearance	light amber	

(1) Properties are typical values based on material tested in our laboratories. Typical values should not be construed as a guaranteed analysis of any specific lot.

Typical Curing Characteristics

SPI Gel Time(1) at 82°C	Value	Unit
SPI Gel Time, 1.0% BPO Crystals or 2% ATC Paste	5	minutes
Gel to Peak Exotherm Time	1.5	minutes
Peak Exotherm	232	°c

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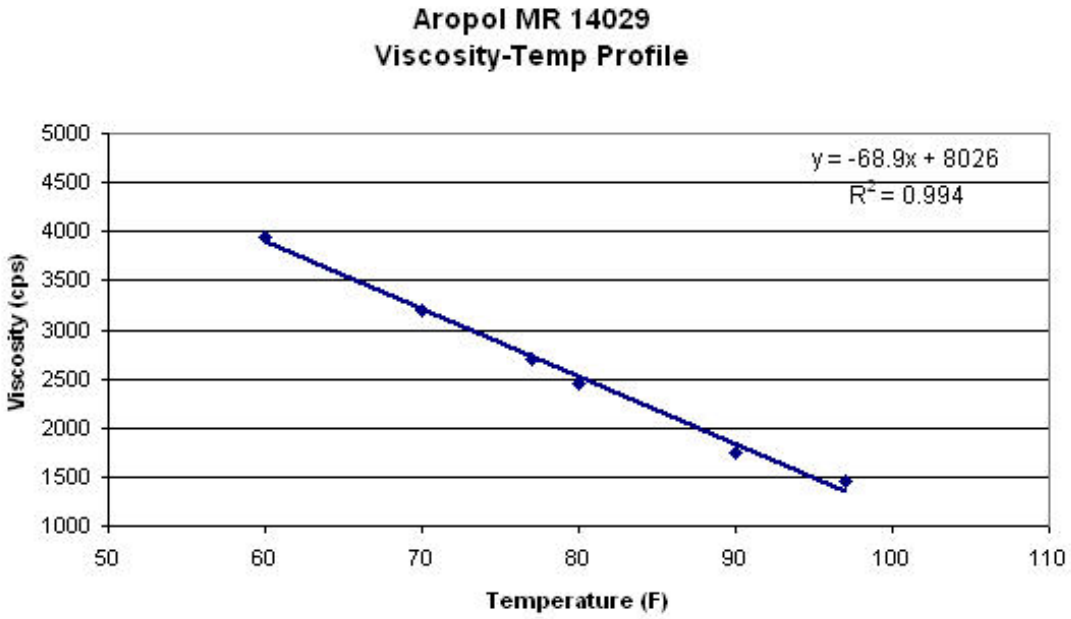
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Typical Clear Cast Properties

Property	Value	Unit
Tensile Strength	69	MPa
Tensile Modulus	3654	MPa
Elongation at Break	2.4	%
Flexural Strength	112	MPa
Flexural Modulus	3585	MPa
HDT	148	°c

Viscosity Profile



Certificates and Approvals

The manufacturing, quality control and distribution of products, by INEOS Composites, comply with one or more of the following programs or standards: ISO 9001, ISO 14001 and OHSAS 18001 by .

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Standard Package	Steel Drum with Net Weight of 220 Kgs (485 Lbs)
Commercial Warranty	Three months from date of shipment, when stored in accordance with the conditions stated below.
Storage	Drums - Store at temperatures below 25°C (77°F). Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. Mild agitation is recommended after prolonged storage. To avoid contamination of product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Rotate stock. Bulk - See INEOS Composites's Bulk Storage and Handling Guide for Polyesters and Vinyl Esters. A copy of this may be obtained from INEOS Composites 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 INEOS Composites 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 INEOS Composites, INEOS Composites 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. INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

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