Technical Datasheet

INEOS Composites

# AROPOL™ A 3058 Resin

Description

AROPOL™ A 3058 is a high reactivity resin that is typically used in high temperature fabrication processes. The resin is not low color, but can be pigmented. This resin contains approximately 25% by weight recycled PET resin thus helping formulators meet their sustainability requirements.

Applications and Use

AROPOL ™ A 3058 is used in press molding and pultrusion applications. In molding compounds (SMC/BMC) the resin is good for use in structural formulations. In pultrusion applications the high reactivity of the resin allows for faster line speeds and good water resistance.

Typical Liquid Resin Properties

| Property[1] at 25°C (77°F) | Value | Unit |
|---|---|---|
| Non-Volatiles Content | 68 | % |
| Viscosity, LVT #4 spindle @ 30 rpm | 5000 | mPas (cps) |
| Weight Per Gallon | 9.4 | Lb/Gal |

Typical Curing Characterisitics

| SPI Gel Time - 82°C (180°F) Bath | Value | Unit |
|---|---|---|
| Gel Time | 4.3 | minutes |
| Peak Exotherm Time | 5.3 | minutes |
| Peak Exotherm Temperature | 232 (450) | °C (°F) |

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

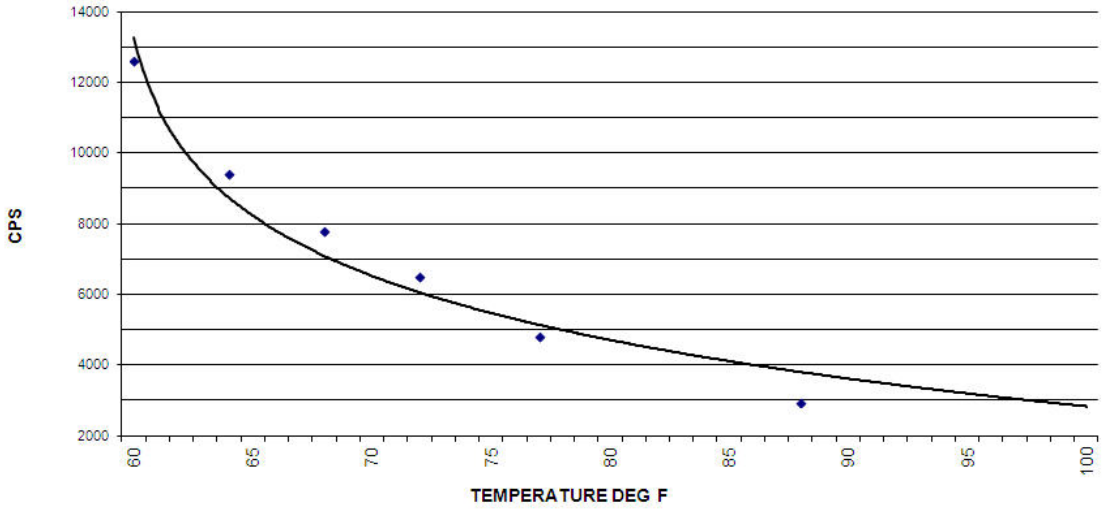
Viscosity vs Temperature

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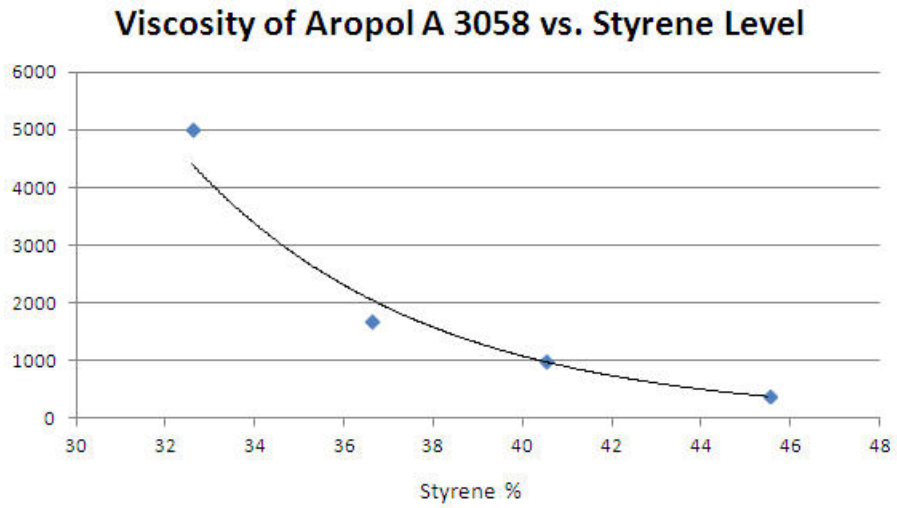
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Viscosity vs Styrene Level

Aropol A 3058 thinned to higher %styrene levels




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Typical Mechanical Properties

| Property | Value (SI) | Value (US) | Method |
|---|---|---|---|
| Tensile Strength | 59 MPa | 8550 psi | ASTM D638 |
| Tensile Modulus | 3450 MPa | 5.0 x $10^5$ psi | ASTM D638 |
| Tensile Elongation | 2.1% | 2.1% | ASTM D638 |
| Flex Strength | 101 MPa | 14,600 psi | ASTM D790 |
| Flex Modulus | 3450 MPa | 5.0 x $10^5$ psi | ASTM D7980 |
| Heat Deflection Temperature | 135°C | 275°F | ASTM D648 |

Standard Package

Steel drum with net weight of 220 Kg (485 Lb)

Commercial Warranty

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

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 INEOS Composites's Bulk Storage and Handling Manual 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.

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# AROPOL™ A 3058 Resin

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.

More Information

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