Technical Datasheet

Ashland Performance Materials

POLARIS™

POLARIS™ MR 11009 Marble Casting Resin Series

Description

POLARIS™ MR 11009 Resin Series are pre-promoted, cultured marble casting resins. They are designed for good filler loading, moderate exotherm and low shrinkage. Each resin has excellent clarity for color pigmentation.

Typical Liquid Resin Properties

Property at 25°C (77°F)	11009	11009 LV	11009-14	11009-14 LV	Unit
Non-Volatiles	74	71	74	71	%
Viscosity, Brookfield RVF #2 spindle, 10 rpm	3000	1250	3000	1250	mPas (cps)
Gel Time*	20	20	14	14	Minutes
Gel to Peak Exotherm Time	10	10	10	10	Minutes
Peak Exotherm Temperature	280	280	280	280	°F

* 1.25 g DDM-9 in 100 g Resin

Properties are typical values but vary from sample to sample. Typical values should not be considered a guarenteed analysis of any specific lot.

Typical mechanical properties

Property of a cured casting[1] at 25°C (77°F)	Value (SI)	Value (US)	Method
Tensile Strength	74 MPa	10,760 psi	ASTM D-638
Tensile Modulus	3650 MPa	5.3 psi x 10^5	ASTM D-638
Tensile Elongation	3.5 %	3.5 %	ASTM D-638
Flexural Strength	122 MPa	17,630 psi	ASTM D-790
Flexural Modulus	3650 MPa	5.3 psi x 10^5	ASTM D-790

[1] Initiated with 1.25% DDM-9, cured at 25°C (77°F) for 24 hrs and postcured for 2 hrs at 121°C (250°F).

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: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.

Standard Package

Bulk tank wagon, or,
55-gallon steel drum (208 L) with Net Wt. of 220 Kg (485 lb).

Responsible Care*

Ashland is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.
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Commercial warranty	Three months from date of shipment when stored in accordance with the conditions stated below.
Handling and 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. To avoid contamination of product with water, do not store outdoors. Keep sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock. Bulk - See Ashland's Bulk Storage and Handling Guide for Polyesters and Vinyl Esters. A copy of this may be obtained from Ashland Performance Materials at +1.614.790.3333 or 1.800.523.6963.
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 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 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.

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