

## POLARIS® 7132-19-B Solid Surface Resin

POLARIS 7132-19-B is a UV stabilised, pre-accelerated, non-thixotropic, acrylic modified unsaturated polyester resin based on isophthalic acid and neopentyl glycol. POLARIS 7132-19-B resin has good air release properties, excellent mechanical properties and a very high heat deflection temperature.

### Typical liquid resin properties

Property at 25 °C	Value	Unit	Method
Viscosity, Brookfield RV2, 10 rpm	550	mPas	ISO 2555
Styrene content	39	%	DS-09-143
Geltime, 1,25% MEKP-50	20	min	DS-09-129
Geltime to peak	9	min	DS-09-129
Peak exotherm, 1,25% MEKP-50	195	°C	DS-09-129
Colour is light pink			
Stability (dark place)	3	Months	

### Typical cured resin properties

Property	Value	Unit	Method
Tensile strength*	65,5	MPa	ISO 527
Tensile modulus*	3200	MPa	ISO 527
Elongation at break*	2,3	%	ISO 527
Flexural strength*	96,5	MPa	ISO 178
Flexural modulus*	3700	MPa	ISO 178
Heat deflection temperature*	120	°C	ISO 75/2 (A)
Heat deflection temperature**	91	°C	ISO 75/2 (A)
Hardness	50	Barcol	ASTM D2583

\* postcure 2h 70°C + 1h 90°C + 2h 135°C

\*\* postcure 2h 80°C

### Application and use

POLARIS 7132-19-B resin is especially recommended for casting of solid surface products and due to good air release properties, gives void free castings under vacuum. Peroxide must be well mixed into the resin before use.

POLARIS 7132-19-B resin can be used for producing kitchen tables, service desks, wall tiles, windowsills etc. The resin gives final products excellent mechanical properties, very good heat resistance and excellent stain resistance.



Responsible Care\*

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casting resins

  
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POLARIS 7132-19-B resin exceeds ANSI 124.6 testing standards including stain and thermal shock testing. To achieve optimum stain resistance properties, postcuring at 80 °C for 4 hours is needed.

### Certificates and approvals

The manufacturing, quality control and distribution of products, by Ashland Composite Polymers, are complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001 by BVQI.

### Handling and storage

It is highly recommended that all material is stored at stable temperatures under 25°C preferably indoors, and away from direct sunlight. Prolonged storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time. It is also strongly recommended to mix resin thoroughly before use. Shelf life of POLARIS 7132-19-B resin is three (3) months.

### 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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