

ICOM MC RESIN GR 1110 NS-10

CHARACTERISTICS

ICOM MC Resin GR 1110 NS-10 is a premium grade UV stabilized NPG-Isophthalic based room temperature curable unsaturated polyester resin for solid surface casting as well as clear casting applications. *(This product is not preaccelerated.)*

ICOM MC Resin GR 1110 NS-10 is designed to have:

- Easy dispersion of pigments and fillers
- Excellent air release properties
- Uniform & complete curing

Solid Surface Casting products made from **ICOM MC Resin GR 1110 NS-10** exhibit:

- Dimensional Stability
- Excellent thermal shock resistance
- Excellent water resistance
- Excellent resistance to normal house-hold chemicals
- Very good stain resistance
- Good weather resistance
- Machinable and easily repairable
- Easily glued or joined using adhesive

PHYSICAL PROPERTIES

Appearance	: Transparent Viscous Liquid
Specific Gravity @25 °C	: 1.18
Viscosity @ 25 °C by Brookfield Viscometer, cP	: 1000 ± 200
Acid Value mg KOH/g	: < 15
Volatile Content (w/w) %	: 35 ± 2

CURING BEHAVIOUR

Geltime, minutes @ 25 °C	
50 gm Resin + 1.5% C1091	: 20-25
Peak Temperature, °C	: 175 ± 10
Total Cure Time, minutes	: 40-60
1C109: Methyl Ethyl Ketone Peroxide (9% Active Oxygen)	

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TYPICAL PROPERTIES OF CURED UNFILLED CAST RESIN

Property	ASTM	Value
Specific Gravity @ 25°C	D792	1.18
Volume Shrinkage, (%)	----	7~8
Tensile Strength, MPa	D638M	78
Tensile Modulus, MPa	D638M	4000
Tensile Elongation at Break, %	D638M	3.0
Flexural Strength, MPa	D790M	140
Flexural Modulus, MPa	D790M	4200
Heat Deflection Temperature, °C	D648	85
Barcol Hardness	D2583	45

USE

ICOM MC Resin GR 1110 NS-10 is highly suitable for fully densified products like Flat Stocks, Sinks, Bowls, Bath-Tubs etc. as well as products of artistic value like intricate sculptures, decorative items and gift articles which can be used as a replacement of wood, aluminum, natural marble and granite.

STORAGE

ICOM MC Resin GR 1110 NS-10 should be stored in a cool and dry place away from sunlight, preferably below 25 °C. Under these conditions, the shelf life is 6 months. The storage stability could be further improved by aerating the resin stored in barrels at an interval of about a fortnight.

HANDLING AND PRECAUTIONS

ICOM MC Resin GR 1110 NS-10 has a flash point of 32 °C and is classified as flammable. Containers should be kept in a cool and ventilated place away from sunlight and sources of ignition. "No Smoking" rules should be strictly enforced. In case of fire, use dry chemical, foam, carbon dioxide or water spray to extinguish the flame. Spillage may be absorbed onto sand or earth and shovelled off and disposed according to local disposal regulations.

Skin contact and vapour inhalation should be avoided during moulding because of the presence of styrene monomer. In case of irritation in the eye or skin, wash with copious amount of water. In extreme case, seek immediate medical advice. The moulding area should be sufficiently ventilated for reducing the vapour levels in the air while compounding and moulding.

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All information is given, based upon our best knowledge, but without liability to us. Data has been obtained by laboratory experiments made by our supplier. Since the condition under which the product is consumed is outside of our control, the product should be tested before use.