

NORSODYNE® S 83111 AL

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Product type

Unsaturated polyester resin in styrene, Orthophthalic

Appearance

Bluish

Main resin characteristics

Fire retardant properties, Good ageing resistance, Good transparency, Light stabilized, Medium reactivity, Preaccelerated, Very good glass wet-out

Main applications

Transparent and corrugated sheets

Moulding informations

Continuous laminating,
Hand lay up and Spray up

Shelf life and storage

Store in the shade, out of direct sunlight. Keep storage temperature below 25°C. Unseal container just before use. Shelf-life will be reduced reaching higher temperature.

Precaution for handling

Read carefully the Safety Data Sheet

Note

FEATURES OF THE LIQUID RESIN

| <i>Properties</i> | <i>Test Method</i> | <i>Unit</i> | <i>Typical values</i> |
|--|---------------------|-------------------|-----------------------|
| Specific weight at 20°C | | g/cm ³ | 1,10 |
| Brookfield viscosity at 23°C, sp 2 rpm 50 | MT-CU023V | mPa.s | 330 - 370 |
| Solid content | MT-CU001C | % | 59 - 67 |
| Reactivity | at 85°C + peroxydes | | |
| Gel time | MT-CU026R | min:sec | 1:50 - 2:50 |
| Curing time | MT-CU026R | min:sec | 3:30 - 4:45 |
| Exothermic peak | MT-CU026R | °C | 195 - 210 |
| Shelf life at 23°C in the dark | MT-CU002S | months | 6 |

PROPERTIES OF THE CURED UNREINFORCED RESIN

| | | | |
|----------------------------|---------------------------------------|-----|-------------|
| Curing cycle | 16 h at 40°C (+ 2 h at 120°C for HDT) | | |
| Tensile strength | ISO 527 (2012) | MPa | 55,6 |
| Tensile modulus | ISO 527 (2012) | MPa | 3532 |
| Elongation at break | ISO 527 (2012) | % | 4,3 |
| Flexural strength | ISO 178 (2011) | MPa | 100 |
| Flexural modulus | ISO 178 (2011) | MPa | 3070 |
| HDT | ISO 75 -2A (2013) | °C | 70 |
| Glass transition | | | |

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