DION® FR 850-M750

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Product type
Unsaturated polyester resin in styrene, Isophthalic

Appearance
Bluish - Light - Opalescent

Main resin characteristics
DNV-GL Grade 2
Filled
Fire retardant properties
Low styrene emission
Medium reactivity
Paraffinated
Preaccelerated
Thixotropic
Type 1110 (DIN 16946-2)

Main applications
General purpose

Moulding informations
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
Stir the resin before use, without introducing air
The final Fire resistance properties could change following the final structure of the piece and its use's condition. It will be necessary to verify the final properties on a prototype before industrial production.

FEATURES OF THE LIQUID RESIN (1)

Properties	Test Method	Unit	Typical values
Specific weight at 23°C		g/cm³	**1,32**
Brookfield LV at 23ºC, sp 2 rpm 12	ASTM D2196-86	mPa.s	**1400-1800**
Cone & Plate		mPa.s	**350-400**
Non Volatile Content	MT-CU 001C at 23°C + 1% MEKP50	%	**67-71**
Gel time (2)	G020	minutes	**25-35**
Storage stability at 23°C in the dark	MT-CU 002S	months	**4**

1) Thoroughly test in your applications before full-scale use. Geltimes may vary due to the reactive nature of these materials and due to different brands of curing additives. Always test on small scale before formulating large quantities.
2) If present, Cobalt is herewith intended as octoate. Use of different Cobalt salts could result in different geltimes. Always test on small scale before formulating large quantities.

PROPERTIES OF THE CURED UNREINFORCED RESIN (3)

Curing cycle	24h at 23ºC + 24h at 60ºC + 3h at 90ºC		
Tensile strength	ISO 527 (2012)	MPa	**55**
Tensile modulus	ISO 527 (2012)	MPa	**5900**
Tensile elongation	ISO 527 (2012)	%	**1,2**
Flexural strength	ISO 178 (2011)	MPa	**80**
Flexural modulus	ISO 178 (2011)	MPa	**5900**
HDT	ISO 75-2A (2013)	°C	**80**

3) Properties are typical values, based on material tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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