

DION® FR 7721-00

Laminating halogen free Fire Retardant Polyester Resin

DESCRIPTION

DION® FR 7721-00 is a low viscosity, medium reactivity, pre-filled, unsaturated halogen free polyester resin, with a good fire resistance.

DION® FR 7721-00 is pre-accelerated and thixotropic.

DION® FR 7721-00 contains alumina tri-hydrate and does NOT contain any halogen and antimony trioxide.

DION® FR 7721-00 contains special additives which improve the working environment during and after application due to substantially reduced styrene evaporation. The resin contains wax which gives the cured laminate a tack-free surface.

APPLICATION

- Hand Lay-Up
- Spray Lay-Up

Prolonged storage or unfavorable storing conditions may cause some separation, hence agitation of the resin before use is recommended.

In common with other pre-accelerated polyesters gel drift occurs on storage. To compensate for this more catalyst may be required.

Do not laminate this resin direct on the tool. A gel-coat must be applied before to avoid any possible adhesion.

FEATURES

BENEFITS

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| <ul style="list-style-type: none">• Low viscosity | <ul style="list-style-type: none">• Improved fiberglass wetability |
| <ul style="list-style-type: none">• ATH filled | <ul style="list-style-type: none">• Improved flow |
| <ul style="list-style-type: none">• Halogen free• Low Styrene Emission | <ul style="list-style-type: none">• Laminates have a good fire behavior. <i>Only the final product must obtain an official grade.</i> |
| <ul style="list-style-type: none">• Thixotropic | <ul style="list-style-type: none">• Low smoke and no toxic emission in a fire situation |
| <ul style="list-style-type: none">• Statistically process and quality controlled | <ul style="list-style-type: none">• Suitable for spray-up and hand lay-up processes |
| | <ul style="list-style-type: none">• Batch to batch consistency |

TYPICAL PROPERTIES

TYPICAL LIQUID SPECIFICATIONS AT 23°C

TYPICAL LIQUID SPECIFICATIONS AT 23°C	Unit	Value	Control method
Property			
Viscosity Brookfield LV, spindle 2 at 6 rpm	mPa.s (cP)	3000 – 5000	2460-001
Viscosity Cone & Plate	mPa.s (cP)	300 – 340	2470-001
Specific gravity	g/cm ³	1,48 – 1,50	2100-001
Volatile content	% weight	18 – 20	2230-001
Oxygen index	%	33 mini.	2145-001
Flash Point	°C	32	ASTM D 3278-95
Gel time + 1% NORPOL® PEROXIDE 1	Minutes	18 – 22	2160-006
Storage stability from date of manufacture	Months	3	G180

TYPICAL MECHANICAL PROPERTIES ON CLEAR CASTING RESIN

Fully post cured

Property	Unit	Value	Standard
Tensile strength	MPa	44	ISO 527-2001
Tensile modulus	MPa	9200	ISO 527-2001
Flexural strength	MPa	85	ISO 178-2001
Heat Distortion Temperature (HDT)	°C	93	ISO 75-1993
BARCOL hardness 934-1	-	50	

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.

SAFETY

READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET BEFORE WORKING WITH THIS PRODUCT

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