

ARES[®] P 114 N 5



TECHNICAL DATA SHEET

CHEMICAL NATURE

ARES P 114 N 5 is an orthohtalic unsaturated polyester resin, with a medium reactivity and low styrene content.

PRINCIPAL PROPERTIES

ARES P 114 N 5 is characterized by hight transparency and excellent brilliance.

ARES P 114 N 5 has a controlled peak to avoid tensioning.

MAIN APPLICATION

ARES P 114 N 5 is suitable for producing buttons made by centrifugal system and casting.

ARES P 114 N 5 is recommended for pouring, for sheet and transparent objects.

VERSIONS AVAILABLE

ARES P 114 is available as follow:

- ARES P 114 N 5 at viscosity of 1300-1500 mPa.s
- ARES P 114 NSL 5 with UV stabilized

STORAGE

The resin is to use within the expired date on the label in the original packaging.
The material has to be stored in a dry place, without a direct light exposition and with a temperature lower than 25°C.

SAFETY PRECAUTIONS FOR HANDLING

See the safety data sheet.

LIQUID RESIN PROPERTIES

PROPERTY	UNIT	VALUE	METHOD
APPARENCE	VISUAL	CLEAR LIQUID	C001
COLOUR	GARDNER	1 max	C002
MONOMER %	%	23 - 25	M001
VIX BROOKFIELD	mPa.s	3400 - 3600	V002
GEL-TIME	Min-sec	5' +/- 15"	G006
PEAK TEMP	°C	130 - 150	G006P1
PEAK TIME	Min-sec	14' - 18'	G006T1
FLASH POINT	°C	31 (STYRENE)	ASTM D 1310

Remarks

G006: 0,3 g Cobalt 1 % + 1 g MEKP 50% to 100 g of resin at 20°C

Viscosity Brookfield (V002): spindle RV2 ; rpm 20 at 25°C

PROPERTIES OF CAST UNFILLED RESIN **

PROPERTY	UNIT	VALUE	METHOD
TENSILE STRENGHT	MPa	3300	ASTM D638M
TENSILE MODULE	MPa	50	ASTM D2583
ELONGATION AT BREAK	%	3	ASTM D638M
SURFACE HARDNESS	MPa	35	ASTM D2583
WATER ABSORPTION	%	<0.1	ISO 62-1980
H.D.T. [66 psi]	°C	70	ASTM D648

**refering ARES P 114 NHV