GCIG Serie EPX

Polyester gelcoat, Iso/NPG

Description

- Polyester gelcoat, Iso/NPG.
- Perfectly suited to the production of polyester parts requiring high resistance to environmental exposure.
- Allows to realize an epoxy laminate with direct anchoring without primer.

Properties

- Substantial resistance to UV and weather
- Good resistance to hydrolysis
- Good gloss retention
- Good resistance to a wide range of chemicals

Non-polymerised gelcoat physical properties

	Test method	Product type		Metric unit
Density	MOlabo009		1.10 – 1.24	
Viscosity	MOlabo002	Machine Reference – VM	11 000 – 18 000	mPa.s
		Brush Reference – VB	35 000 – 43 000	mPa.s
		Spatula Reference – VS	380 000 – 420 000	mPa.s
Thixo. index	MOlabo002		>5.50	
Solid content	MOlabo005	Machine Reference – VM	55 – 60	%
		Manual References – VB/VS	63 – 67	%
Gel time	MOlabo001		11 – 16	min
Lamination time	MOlabo010		45 –60	min

Base resin mechanical properties

	Test method		Metric unit
Tensile strength	ISO 527-2	80	MPa
Tensile modulus	ISO 527-2	3 700	MPa
Elongation at break	ISO 527-2	3.30	%
HDT	ISO 75/A	84	°C

POLYPROCESS S.A.S
PE Labory Baudan II - 105, rue Gay Lussac 33127 Saint Jean d'Illac - France
Tél. : + 33(0)5 57 977 780 - Fax : +33(0)5 57 977 781 - E-mail : contact@polyprocess.fr
www.polyprocess.fr

GCIG Serie EPX

Polyester gelcoat, Iso/NPG

Uses

- Windmill
- Various equipment

Complementary references

- Manual application with a brush – VB – or with a spatula – VS – or application with a dispensing unit – VM
- Adjusted gel time – FCI = Fast Curing Injection = shorter gel time for RTM
- Internal release agent – in order to ease de-moulding and to prevent moulds clogging
- All RAL colours or according to countertype

Product features

Colour control		Spectro-colorimetric analysis of each batch according to RAL certified chart or countertype. Δ L, Δ a, Δ b and Δ E according to colour.	
Equipment and settings		<u>Spray gun</u> Nozzle: 2.5 to 3mm Pressure: 3 to 4bars Mould distance: 30 to 50cm	<u>Airless</u> Assisted air nozzle: 419 1840 or 2140 Carbide nozzle – according to part dimensions Mould distance: 60 to 80cm
User instructions		- Gelcoat EPX must be used at a temperature above 20 ° C. - Slightly stir the gelcoat before use. - Use a Methyl Ethyl Ketone Peroxide – MEKP – catalyst between 1 and 2%. - Check the gelcoat/catalyst mix and homogeneity.	
Thickness		- The applied gelcoat thickness should not exceed 400 to 800 microns – control to be done with a thickness gauge.	
Storage		- This product should be stored no more than 3 months after the production date. - Store away from humidity. - Store in original sealed packaging at a temperature between 20°C to 25°C.	
Health & Safety	**RoHS compliant**	- All our products comply with RoHS regulation. - All our products are heavy metals free, such as: lead, mercury, cadmium, chromium. - All our products are halogens free. - Please refer to the product Health & Safety Datasheet.	

POLYPROCESS S.A.S
PE Labory Baudan II - 105, rue Gay Lussac 33127 Saint Jean d'Illac - France
Tél. : + 33(0)5 57 977 780 - Fax : +33(0)5 57 977 781 - E-mail : contact@polyprocess.fr
www.polyprocess.fr