

PUG-800 / PUG-732 / PUG-7321

DESCRIPTION

The PUG-800, PUG-732 and PUG-7321 are un-promoted, high viscosity, unsaturated polyester resins.

FEATURES AND BENEFITS

- Good wet out/roll out properties
- Acceptance of styrene monomer not more than 30-40% by weight.
- Good Mechanical properties.
- Moderate hardness development.
- Low color.

APPLICATIONS

- GP laminating, FRP parts, Hand lay-up, Spray-up.
- Decorative figures.

TYPICAL LIQUID PROPERTIES

Property	Units	PUG-800	PUG-732	PUG-7321	Test Method
Acid number (Solution)	Mg KOH/g sample	40 máx.	37 máx.		TARQ - 100
Non-volatile content	%	<i>7</i> 8-82	74-76	70-74	TARQ – 204
Gardner viscosity		Z4-Z6	Z1-Z4	Z-Z2	TARQ - 310
Gel time	Min.	<i>7</i> -11 ²	6-10 ¹	15-20 ²	TARQ - 400
Cure time	Min.	24-32	20-30	27-38	TARQ – 400
Exothermic Peak	αC	160 max.	145-170.	160 max.	TARQ – 400
Gardner color				1.5 max.	TARQ - 600
Apha color		80 max.	90 max.		TARQ - 610
Stability at 120°C	Hours	1 max.	1.5 max.		TARQ - 660
Appearance		Visual			

 $^{^1}$ Dilute to 60% solids, 0.25% Co (12%),1% RR catalyst @25°C; 2 Dilute to 60% solids, 0.25% Co (12%),1% Butanox M-50 catalyst @25°C.

NOTE: Tests results compared with the reported in certificate can be affected due to: batch age, temperature, moisture, type and amount of catalyst, testing equipment and method.



PYSICAL PROPERTIES

Physical properties are shown for fiberglass laminate: These are typical values and are provided for reference only.

Property	Units	PUG-800	PUG-732	PUG-7321	Test Method
Tensile Strength	Psi		ASTM D-638		
Tensile Modulus	Psi		ASTM D-638		
Elongation	%		ASTM D-638		
Flexural Strength	Psi		ASTM D-790		
Flexural Modulus	Psi		ASTM D-790		
HDT @ 1.82 MPa	°C		ASTM D-648		
Barcol hardness		40			ASTM D-2583

- 1.- Laminate construction: 30% fiberglass to resin ratio.
- 2.- Laminate cured overnight at room temperature and post-cured at 65°C for 5 hours.
- 3.- HDT is evaluated at neat resin casting.

RECOMMENDATIONS

- 1.- The catalyst level should not exceed 2.8% or fall below 1% for proper cure.
- 2.- These products should not be used when temperature conditions are below 16°C, as curing and handling may be adversely affected.
- 3.- Do not add any material different to the catalyst recommended for these products.
- 4.- Do not mix organic peroxides with metallic soaps, amines or any type of accelerators or promoters, because it can result on violent decomposition with fire or explosion.
- 5.- Any additional questions, please contact your Reacciones Químicas SA de CV sales representative.

STORAGE

Uncatalyzed PUG-800, PUG-732 and PUG-7321 resins, have a usage life of three months from invoice date, when stored at 25° C or below, in a closed, factory sealed opaque containers, and out of direct sunlight, heat sources or moisture. For every 7° C increase in storage temperature, the shelf life is reduced by one half.



SAFETY AND HANDLING

Detailed information for safe handling of PUG-800, PUG-732 and PUG-7321 resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.



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