CoREZYN® COR75-AQ-010

Vinyl Ester

Interplastic Corporation

Message:

CoREZYN® isophthalic resins are suitable for a wide range of conventional FRP/GRP applications. They are premium-grade, high-molecular weight, thermosetting resins formulated specifically for their physical and corrosion resistance properties.
For optimum performance and corrosion resistance, Interplastic uses the more exacting and expensive two-stage reaction for manufacturing its isophthalic resins. This process yields the best possible average molecular weight and molecular-weight distribution. In addition, the carefully designed mole ratios in these resins offer a significant improvement over conventional industry standards. CoREZYN isophthalic resins deliver superior performance, resulting from an optimum balance of reaction technique, esterification to a high molecular weight, and mole ratio of unsaturated acid to aromatic acid.
All of these resins have the same isophthalic "backbone" that gives them their corrosion resistant properties. Variations in the individual resin formulations result in a range of properties that provide different functional characteristics. This permits a great deal of versatility in finished-product formulation, while maintaining high corrosion resistance and physical properties.

General Information			
Features	Good Corrosion Resistance High Molecular Weight Isophthalic		
Uses	Laminates		
Agency Ratings	UL 1746		
Appearance	Blue-Green		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.05 to 1.09	g/cm^3	
Styrene Content	46 to 48	%	
Heat Deflection Temperature (3.20 mm)	101	°C	ASTM D648
Gel to Peak	7.0 to 15.0	min	
Non-Volatile Content	52 to 56	%	
Peak Exotherm	149 to 188	°C	
Thixotropic Index	2.20 to 3.00		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Barcol Hardness (3.20 mm)	42		ASTM D2583
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (3.20 mm, Cast)	3860	MPa	ASTM D638
Tensile Strength (3.20 mm, Cast)	75.9	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Cast)	2.4	%	ASTM D638
Flexural Modulus (3.20 mm, Cast)	3720	MPa	ASTM D790
Flexural Strength (3.20 mm, Cast)	149	MPa	ASTM D790
Uncured Properties	**Nominal Value**	**Unit**	
Viscosity [1] (25°C, Brookfield HBT)	0.40 to 0.55	Pa·s	
Gel Time [2] (25°C)	15 to 20	min	
NOTE			

1.	#3 spindle 60 rpm
2.	1cc of 50% MEKP gel time; 100 gram mass

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