



PT5358

FIRE RETARDANT EPOXY LAMINATING RESIN

DESCRIPTION

PT5358 is an epoxy laminating system with cured fire retardant characteristics that meets the requirements of the UL 94 V-0 specification. The cured physical properties of PT5358 are quite good, and laminates made with it will give long service in the most demanding applications. It has well-balanced handling characteristics for ease of use and quick fabrication capabilities. PT5358 is a good candidate for any application where tough cured properties are needed and a self extinguishing system is required.

PRODUCT SPECIFICATIONS

	PT5358 Part A	PT5358 Part B	ASTM Method
Color	White	Amber	Visual
Viscosity, @77°F, centipoise	8,000 - 8,500 cps	300 - 350 cps	D2392
Specific Gravity, gms./cc	1.27	1.05	D1475
Mix Ratio	100 : 14 By Weight		PTM&W
Pot Life, 4 fl.oz. Mass @ 77°F	40 minutes		D2471

HANDLING and CURING

PT5358 will cure completely at normal ambient temperatures (75°F nominal), and does not require an oven heat cure. Laminates made with the PT5358 can be demolded after an overnight cure (18 hours minimum). Higher ambient temperatures will shorten these requirements, and conversely, longer cure times will be necessary in colder temperatures.

PACKAGING WEIGHTS

	Gallon Kit	Pail Kit	Drum Kit
PT5358 Part A	9 lb.	45 lb.	450 lb.
PT5358 Part B	1.26 lb.	6.3 lb.	2 @ 32 lb. ea. (64 lb.)
Kit	10.26 lb.	51.3 lb.	514 lb.

TYPICAL MECHANICAL PROPERTIES

	PT5358 A / B		ASTM Method
Mix Ratio, By Weight	100 : 14 By Weight		PTM&W
Color	White		Visual
Mixed Viscosity, @77°F, centipoise	4,000 - 4,500 cps		D2393
Pot Life, 4 fl. Oz. Mass, @77°F	40 minutes		D2471
Cured Hardness, Shore D	85 Shore D		D2240
Specific Gravity, grams, cc	1.24		D1475
Density, lb./cu. Inch	0.0447		D792
Specific Volume, cu. in./lb.	22.4		
	----CAST BAR----	----LAMINATE*----	
Tensile Strength, psi	6,065 psi	45,775 psi	D638
Elongation at Break, %	1.54 %	1.50 %	
Tensile modulus, psi	549,996 psi	2,754,557 psi	
Flexural Strength, psi	10,210 psi	59,437 psi	D790
Flexural Modulus, psi	586,397 psi	2,894,587 psi	
Compressive Strength, psi	13,245 psi		D695
Compressive Modulus, psi	525,458 psi		
Izod Impact Strength, Method A, Notched	0.51		D256
Glass Transition Temperature, DMA: Tg	177°F		D4065

SAFETY and HANDLING

PTM&W epoxy products are made from raw materials carefully chosen to minimize or even eliminate toxic chemicals, and therefore offer the user high performance products with minimum hazard potential when properly used. Generally, the PTM&W epoxy resins and hardeners will present no handling problems if users exercise care to protect the skin and eyes, and if good ventilation is provided in the work areas. However, breathing of mist or vapors may cause allergenic respiratory reaction, especially in highly sensitive individuals. As such, avoid contact with eyes and skin, and avoid breathing vapors. Wear protective rubber apron, clothing, nitrile rubber gloves, face shield or other items as required to prevent contact with the skin. In case of skin contact, immediately wash with soap and water, followed by a rinse of the area with vinegar, and then a further wash with soap and water. The vinegar will neutralize the hardener and lessen the chances of long term effects. Use goggles, a face shield, safety glasses or other items as required to prevent contact with the eyes. If material gets into the eyes, immediately flush with water for at least 15 minutes and call a physician. Generally, keep the work area as uncluttered and clean as possible, and clean up any minor spills immediately to prevent accidental skin contact at a later time. Keep tools clean and properly stored. Dispose of trash and empty containers properly. Do not use any of these types of products until Material Safety Data Sheets have been read and understood.

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