



Chemical Resistant Isophthalic Polyester Resin

DESCRIPTION : ETERSET 2843 is a unprepromoted, chemical-resistant isophthalic resin.

PERFORMANCE :

- Exhibits good chemical resistance.
- has excellent gel time stability.
- Offers high impact strength and toughness.
- Displays excellent crack and craze resistance.
- has high tensile elongation.

SUGGESTED USES :

- Filament winding for pipe and tanks.

SPECIFICATIONS

Appearance	Yellowish transparency
Color, Gardner	3 max.
Viscosity Brookfield at 25°C #3 spindle at 60rpm, cps.	400-500
Styrene monomer content, %	34-37
Specific gravity	1.11-1.15
Acid number,mg KOH/g resin	<15

TYPICAL PERFORMANCE DATA

(for guidance only)

Typical Curing Characteristics of ETERSET 2843 :

Room temperature cure at 25°C 1.0% MEKPO (55%), 0.5% Cobalt octoate (6%)

Gel time, mins	15
Total time to peak exotherm, mins	22
Peak exotherm, °C	193

Mechanical/physical data in cured state

Properties	Pure resin	Reinforced	Unit	Test method
Glass content	--	33	% weight	ISO 1172
Tensile strength	75	110	N/mm ²	ISO/R 527
Tensile elongation	4.0	--	%	ISO/R 527
Flexural strength	122	200	N/mm ²	ISO 178
Flexural modulus	3200	8300	N/mm ²	ISO 178
Heat distortion temp.	82	--	°C	ISO 75
Hardness (Barcol)	45	--	934-1	ASTM D 2583
Change in weight after 28 days				
--dist. water	85	mg/test pieces		ISO/R 62
--n-heptane	10	mg/test pieces		ISO/R 175
--n-heptane/o-xylene (60/40)	10	mg/test pieces		ISO/R 175
Reduction factor. Flexural modulus after 6 months				
--dist. water	0.81	Ev/Eo		ISO/R 462
--n-heptane	0.93	Ev/Eo		ISO/R 462
--n-heptane/o-xylene (60/40)	0.90	Ev/Eo		ISO/R 462

Recommended Storage :

Drums store at temperature below 25°C. This product has a usable life of three months. Storage life decreases with increasing temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. Keep containers sealed to prevent moisture pickup and monomer loss.

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