Palapreg® P 171-903

Orthophthalic resin

Palapreg® P 171-903 is specially designed for SMC and BMC parts. It is mainly used together with Palapreg plastic additives for low shrink or low profile SMC / BMC applications. The resin can be readily thickened with magnesium oxide.

Benefits

- High reactivity
- Readily thickened with magnesium oxide

Major applications

Palapreg® P171-903 is specially designed for SMC/BMC parts, especially for BMC. Palapreg® P171-903 has a good performance with relatively low cost. Due to its good toughness, Palapreg® P 171-903 has excellent long-term pressure resistance required by the FRP products such as water tank plates and other water resistant products. SMC/BMC with Palapreg® P 171-903 can also be applied in the FRP parts with low voltage insulation, medium surface quality and medium mechanical properties.

Palapreg® P171-903 has medium viscosity, high reactivity, steady thickening behavior, excellent mechanical performance and heat resistance.

Product Specifications

Property	Value	Unit	TM
Appearance	Clear		TM 2265
Solids content	62 - 65	%	TM 2033

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Liquid resin typical properties

Property	Value	Unit	TM
Flash point	33	℃	TM 2800
Stability (Solid, dark, 25 °C)	3	month	25 °C, dark, TM 2303

Unfilled castings typical properties

Property	Value	Unit	TM
Flexural E-Modulus	3.4	GPa	ISO 178
Flexural strength	115	MPa	ISO 178
HDT	115	℃	ASTM D648
Impact strength unnotched spec	10	kJ/m²	ASTM D4812
Elongation at break	2.7	%	ISO 527-2
Tensile modulus	3.3	GPa	ISO 527-2
Tensile strength	65	MPa	ISO 527-2

Curing conditions: Curing for 24 hours at R.T. + post-curing for 24 hours at 80℃. Testing conditions: Temperature at 23±2℃; relative moisture at 50±5%.

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AOC is the leading global supplier of specialty formulations and solutions which enable customers to create robust, durable, and versatile products and components for applications in Coatings and Protective Barriers, Colorants and Visual Effects, Adhesives and Specialties, and conventional Composites. With strong capabilities worldwide in manufacturing and science, the company works closely with customers to deliver unrivaled quality, service, and reliability for today and create innovative solutions for tomorrow.

Contact us for more information

We will help you to choose the right solution for your business.

asiapacific@aocformulations.com

India
+91 91 3009 5336
india@aocformulations.com

Asia Pacific
+41 52 644 1212
asiapacific@aocformulations.com

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