



Technical Data Sheet:

Paya-65

Product Name and Identification:

- Product Name: **Paya-65**
- Chemical name: **Pure Maleic Unsaturated Polyester Resin**

Product Description:

Paya-65 is a high-performance pure maleic unsaturated polyester resin designed for a wide range of applications. With its excellent mechanical and chemical properties, this resin ensures exceptional durability and long-lasting performance. Its high reactivity allows for efficient and fast curing processes, making it an ideal choice for time-sensitive projects. Paya-65 is specifically formulated for the manufacturing of reinforced plastic products, providing superior strength and structural integrity. Whether used in BMC or SMC production, this versatile resin consistently delivers reliable results for various composite applications.

Physical and Chemical Properties:

- 1. Viscosity:** 900-1200 mPa.s
- 2. Percent Solids:** 64-68 %
- 3. Density at 20 °C:** 1.05-1.13 g/cm³
- 4. Acid Value (Solids):** <20 mg KOH/g
- 5. Color (gardener):** <2
- 6. Gel Time:** 2-5 minute
- 7. Time to Peak:** 5-7 minute
- 8. Peak Temperature:** 140-160 °C

Technical Performance:

Parameter	Result	Units	Test Method
Hardness (Barcol):	40 - 45	-	ASTM D2583
Tensile Strength:	35 - 45	Mpa	ISO 527-2
Elongation at Break:	1 - 2	%	ISO 527-2
Flexural Strength:	80 - 100	Mpa	ISO 178
Heat Distortion Temperature:	100 - 130	°C	ISO 75-2
Water Absorption, 24 hrs.:	≤ 0.30	%	ISO 621958

Application and Use: SMC, BMC Applications Car Parts SMC Sheets

Curing Conditions: For every 100 gr of resin add 1 gr of hardener (TBPB). In the range of 85-95°C the curing rate is not very high, unless there is a reaction exotherm. Really short cure times can be achieved only above 120°C. The optimum temperature range for hot press molding therefore is 130-140°C.

Packaging and Shelf Life:

Packaging Options: Paya-65 is conveniently packaged in robust 200 kg metal barrels.

Shelf Life: Under optimal storage conditions, Paya-65 exhibits a shelf life of 6 months.

