Technical Data Sheet:

Paya-60

Product Name and Identification:

- Product Name: Paya-60
- Chemical name: Isophthalic Unsaturated Polyester Resin

Product Description:

Paya-60 is a high-quality unsaturated polyester resin that offers exceptional performance in molding applications. This versatile resin, with its high activity and superior wetting properties, ensures excellent impregnation and adhesion to various reinforcement materials. With its suitable viscosity, Paya-60 allows for effortless handling and processing, making it an ideal choice for a wide range of molding applications. Whether you're producing intricate parts or large-scale components, Paya-60 delivers reliable results with excellent dimensional stability and mechanical strength.

Physical and Chemical Properties:

1. **Viscosity:** 900-1200 mPa.s
2. **Percent Solids:** 62-65 %
3. **Density at 20 ˚C:** 1.05-1.13 g/cm³
4. **Acid Value (Solids):** <25 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 ℃

Technical Performance:

Parameter	Result	Units	Test Method
Hardness (Barcol):	40 - 45	-	ASTM D2583
Tensile Strength:	80 - 90	Mpa	ISO 527-2
Elongation at Break:	3 - 4	%	ISO 527-2
Flexural Strength:	110 - 140	Mpa	ISO 178
Flexural Modulus:	3000 - 3700	Mpa	ISO 178
Heat Distortion Temperature:	<120	⁰C	ISO 75-2
Water Absorption, 24 hrs.:	≤ 0.30	%	ISO 621958
Volumetric curing shrinkage:	8.82	%	DIN-16945

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-60 is conveniently packaged in robust 200 kg metal barrels.

Shelf Life: Under optimal storage conditions, Paya-60 exhibits a shelf life of 6 months.