PRAGYA POLYMERS

TECHNICAL DATA SHEET (TDS)

Product: PVC Compound – Auto Mat Range

Manufacturer: Pragya Polymers

Grade: AM-P90 – Premium

Application: Automotive Floor Mats & Interior PVC Components

Product Overview

A premium-grade flexible PVC compound engineered for high-performance automotive floor mats and interior trim components. Formulated for superior dimensional stability, excellent cold-temperature flexibility, low odour, and outstanding abrasion resistance — meeting the demanding requirements of OEM and Tier-1 automotive suppliers.

Property	Test Method	Typical Value	Unit
Density @ 23°C	ASTM D792	1.28 ±0.02	g/cm³
Hardness	ASTM D2240	82 ±3	Shore A
Tensile Strength	IS 4667 / ASTM D412	≥12.0	MPa
Elongation at Break	IS 4667 / ASTM D412	≥300	%
Tear Strength	ASTM D624	≥35	kN/m
Abrasion Resistance (DIN)	DIN 53516	≤130	mm³
Cold Flex Temperature	ASTM D1043	≤ −15	°C
Heat Ageing (100°C×168h) – TS Retention	ASTM D573	≥80	%
Heat Ageing (100°C×168h) – Elong. Retention	ASTM D573	≥75	%
VOC Emission	VDA 278	Low	–
Fogging Value	DIN 75201	≥90	Gloss
Colour Fastness (UV)	ISO 105-B02	Rating ≥4	–
MFI (190°C / 10 kg)	ISO 1133	5–15	g/10 min

Processing Guide

Twin-screw or single-screw extruder with L/D ≥24. Barrel temperature: 150–170°C; Die temperature: 170–180°C. Calendering also suitable at roll temp 160–170°C. Pre-drying recommended if stored >30 days: 70°C for 2h. Low shear screw geometry preferred. Anti-plate-out lubricant system included; no additional release agent required.

Compliance & Disclaimer

Formulated to meet OEM automotive interior material requirements. Lead-free, Cadmium-free, and compliant with EU RoHS Directive 2011/65/EU. Low-fogging and low-VOC formulation. Azo dye free. Typical values are indicative only and not to be construed as specifications. Final suitability for application must be validated by the customer.