



PP-TD40

40% Talc-Filled Polypropylene Compound

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D  
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A high-modulus PP compound for rigid, dimensionally controlled mouldings and metal-replacement studies. Applications: Structural housings; HVAC/appliance components; Automotive brackets and covers. Key features: High stiffness; Low mould shrinkage; Heat-stabilised formulation option.

PRELIMINARY TECHNICAL PROPERTIES

| PROPERTY / CONDITION                 | TEST METHOD                                | PROVISIONAL VALUE | UNIT       |
|--------------------------------------|--------------------------------------------|-------------------|------------|
| Inorganic residue (talc-correlated)  | ISO 3451-1; validated internal correlation | 40 ± 1.5          | wt. %      |
| Melt volume-flow rate, 230°C/2.16 kg | ISO 1133-1                                 | 11 ± 2            | cm³/10 min |
| Density, 23°C                        | ISO 1183-1                                 | 1.23-1.26         | g/cm³      |
| Tensile stress at break, 23°C        | ISO 527-2                                  | 23-28             | MPa        |
| Flexural modulus, 23°C               | ISO 178                                    | 4,500-5,200       | MPa        |
| Notched Charpy impact, 23°C          | ISO 179-1/1eA                              | 2.0-3.0           | kJ/m²      |
| HDT, 0.45 MPa, unannealed            | ISO 75-2                                   | 125-135           | °C         |
| Mould shrinkage, flow/transverse     | ISO 294-4                                  | To be established | %          |

QUALIFICATION & USE

- Values are development targets, not a sales specification or certificate of analysis.
- Final limits require independent production-lot validation using the cited methods and controlled specimen preparation.
- Regulatory, food-contact, medical, UL, IEC, ATEX or OEM compliance applies only when confirmed in a grade-specific document.