

TPJ-HIPS-GP-IMEX

PROVISIONAL TECHNICAL
DATA SHEET
PRODUCT UNDER
QUALIFICATION

General-Purpose HIPS - Injection & Extrusion

Polymer family: High-Impact Polystyrene (HIPS)

Natural general-purpose HIPS designed for a practical stiffness-toughness balance in appliance parts, technical articles, sheet extrusion and thermoformed products.

KEY FEATURES

Good impact resistance | Balanced stiffness | Stable injection and extrusion behavior | Good surface appearance | Easy coloring

RECOMMENDED APPLICATIONS

Appliance parts, technical articles, injection-molded consumer products, extruded sheet and thermoformed products.

TYPICAL PROPERTIES

Property	Test condition	Test method	Unit	Provisional typical / target value
Density	23 C	ISO 1183 / ASTM D792	g/cm3	1.04-1.06
Melt Flow Rate	200 C / 5 kg	ISO 1133 / ASTM D1238	g/10 min	4.0
Tensile Stress at Yield	23 C	ISO 527 / ASTM D638	MPa	20-28
Flexural Modulus	23 C	ISO 178 / ASTM D790	MPa	1,800-2,300
Notched Izod Impact	23 C; 4 mm	ISO 180	kJ/m2	10
Vicat Softening Temperature	B50; 50 N, 50 C/h	ISO 306	C	91

Values are representative development targets only. Specimens, conditioning and test details shall follow the cited standard unless otherwise agreed.

INDICATIVE PROCESSING GUIDE

Parameter	Indicative guidance
Pre-drying	Normally not required; 70-80 C for 1-2 h if exposed to moisture
Melt temperature	190-240 C
Mold temperature	20-60 C

Processing windows are starting recommendations and must be optimized for machine, geometry, residence time, color and end-use requirements.

PACKAGING, STORAGE & TRACEABILITY

Packaging: Standard proposal: 25 kg moisture-resistant lined bags.

Storage: Store in original sealed packaging in a cool, dry, clean and ventilated area, protected from direct sunlight, heat, moisture and contamination.

Traceability: Batch number, production date, raw-material lot, manufacturing lot and retained sample. CoA availability follows product qualification.

REGULATORY STATUS

No food-contact, medical, UL, RoHS, REACH, automotive, flame-retardant, UV-resistance or other regulated-performance claim is made unless supported by valid, grade-specific and traceable test reports or certificates.

TECHNICAL DISCLAIMER

The values shown in this document are provisional typical or target values and do not constitute guaranteed specifications. Final commercial specifications shall be established only after pilot production, laboratory testing, application trials and formal product qualification. This document is not a Safety Data Sheet or Certificate of Analysis.