

TPJ-GPPS-HS-IMEX

PROVISIONAL TECHNICAL
DATA SHEET
PRODUCT UNDER
QUALIFICATION

High-Stiffness GPPS - Injection & Extrusion

Polymer family: General-Purpose Polystyrene (GPPS)

Natural transparent GPPS solution for rigid household articles, appliance components, stationery, sheets and general molded parts requiring clarity, stiffness and dimensional consistency.

KEY FEATURES

High clarity | High stiffness | Good dimensional stability | Good processability | Easy coloring

RECOMMENDED APPLICATIONS

Rigid household articles, transparent consumer products, stationery, appliance components, extruded sheets and profiles, and general molded parts.

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	3.8
Tensile Stress at Yield	23 C	ISO 527 / ASTM D638	MPa	40-55
Flexural Modulus	23 C	ISO 178 / ASTM D790	MPa	2,800-3,300
Vicat Softening Temperature	B50; 50 N, 50 C/h	ISO 306	C	91
Visual Appearance	Natural pellets	Internal method	-	Clear / transparent

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 required
Melt temperature	180-240 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.