

TPJ-ABS-GP-IM

PROVISIONAL TECHNICAL
DATA SHEET
PRODUCT UNDER
QUALIFICATION

General-Purpose ABS - Injection Molding

Polymer family: Acrylonitrile Butadiene Styrene (ABS)

Natural general-purpose ABS compound intended for injection-molded appliance housings, consumer products and industrial components.

KEY FEATURES

High surface gloss | Balanced stiffness and impact resistance | Good dimensional stability | Easy injection molding | Suitable for pre-coloring

RECOMMENDED APPLICATIONS

Appliance housings, consumer products, office equipment, electrical and electronic housings, and general industrial molded parts.

TYPICAL PROPERTIES

Property	Test condition	Test method	Unit	Provisional typical / target value
Density	23 C	ASTM D792	g/cm3	1.05
Melt Volume Rate	220 C / 10 kg	ASTM D1238	cm3/10 min	18
Tensile Stress at Yield	23 C	ASTM D638	MPa	44
Tensile Modulus	23 C	ASTM D638	MPa	2,380
Flexural Modulus	23 C	ASTM D790	MPa	2,410
Notched Izod Impact	23 C	ASTM D256	J/m	267
Vicat Softening Temperature	B/1; 120 C/h, 10 N	ASTM D1525	C	107
Mold Shrinkage	Flow direction	ASTM D955	%	0.2-0.6

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	80 C for 2-4 h using a dry-air dryer
Melt temperature	245-275 C
Mold temperature	30-60 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.