



PLASTIC RECYCLING, INC.

*Plastic Waste Specialists*

RECYCLED  
COMPOUNDS

# TECHNICAL DATA SHEET

PS

HIPS 03-01 WHITE 001

HIPS

High Impact Polystyrene, flowability specific for extrusion

Description

Extrusion, thermoforming

Processing Methods

USA, Mexico, Europe

Availability

V2-10-07

Used for sheets or trays application.

Typical Applications

ASTM

Test Methods

## TYPICAL PROPERTIES

| Physical            | Method                 | Conditions     | Value | Unit              |
|---------------------|------------------------|----------------|-------|-------------------|
| Melt mass-flow rate | ASTM D1238 Procedure B | 200°C - 5.0 kg | 3.0   | g/10'             |
| Density             | ASTM D792 Method A     | 73°F           | 1040  | kg/m <sup>3</sup> |

| Mechanical                      | Method    | Conditions         | Value  | Unit     |
|---------------------------------|-----------|--------------------|--------|----------|
| Flexural modulus                | ASTM D790 | 73°F - 0.05 in/min | 300000 | psi      |
| Flexural strength               | ASTM D790 | 73°F - 0.05 in/min | 6100   | psi      |
| Tensile Modulus                 | ASTM D638 | 73°F - 0.05 in/min | 330000 | psi      |
| Tensile stress at Yield         | ASTM D638 | 73°F - 2 in/min    | 4000   | psi      |
| Tensile stress at Break         | ASTM D638 | 73°F - 2 in/min    | 3000   | psi      |
| Elongation at Yield             | ASTM D638 | 73°F - 2 in/min    | 2.0    | %        |
| Elongation at Break             | ASTM D638 | 73°F - 2 in/min    | 40     | %        |
| Izod Pendulum Impact Resistance | ASTM D256 | 73°F               | 1.9    | ft*lb/in |

| Thermal                           | Method     | Conditions                      | Value | Unit |
|-----------------------------------|------------|---------------------------------|-------|------|
| Deflection Temperature Under Load | ASTM D648  | (264 psi, Unanneled)            | 165   | °F   |
| Deflection Temperature Under Load | ASTM D648  | (66 psi, Unanneled)             | 185   | °F   |
| Vicat softening temperature       | ASTM D1525 | Loading 2 - Rate A (10N-50 C/h) | 210   | °F   |
| Vicat softening temperature       | ASTM D1525 | Loading 2 - Rate B (50N-50 C/h) | 200   | °F   |

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