



PLASTIC RECYCLING, INC.

Plastic Waste Specialists

RECYCLED
COMPOUNDS

TECHNICAL DATA SHEET

PS

HIPS 06-02 BLACK 000

HIPS

High Impact Polystyrene (HIPS), flowability specific for injection molding. Bromine content not exceeding 300 ppm. Standard black color.

Description

Injection Molding

Processing Methods

USA, Mexico, Europe

Availability

V0-03-27

Electrical & Electronic Applications.

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	6.0	g/10'
Density	ASTM D792 Method A	73°F	1040	kg/m³
Ash content	Internal Method	475°C - 15 min	3.0	%

Mechanical	Method	Conditions	Value	Unit
Flexural modulus	ASTM D790	73°F - 0.05 in/min	285000	psi
Flexural strength	ASTM D790	73°F - 0.05 in/min	5800	psi
Tensile Modulus	ASTM D638	73°F - 0.05 in/min	315000	psi
Tensile stress at Yield	ASTM D638	73°F - 2 in/min	3700	psi
Tensile stress at Break	ASTM D638	73°F - 2 in/min	2700	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	2.0	ft*lb/in

Thermal	Method	Conditions	Value	Unit
Deflection Temperature Under Load	ASTM D648	(264 psi, Unanneled)	160	°F
Deflection Temperature Under Load	ASTM D648	(66 psi, Unanneled)	180	°F
Vicat softening temperature	ASTM D1525	Loading 2 - Rate A (10N-50 C/h)	200	°F
Vicat softening temperature	ASTM D1525	Loading 2 - Rate B (50N-50 C/h)	190	°F

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