



PLASTIC RECYCLING, INC.

Plastic Waste Specialists

RECYCLED
COMPOUNDS

TECHNICAL DATA SHEET

PS

HIPS 03-02 BLACK 000

HIPS

High Impact Polystyrene, flowability specific for extrusion , standard black color.

Description

Extrusion, Thermopforming.

USA, Mexico, Europe

Processing Methods

Availability

V2-10-07

Used for rigid packaging applications.

ASTM

Typical Applications

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/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	2.3	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

It is the responsibility of our customers to check if the materials supplied and articles made out of it are suitable for the intended use and comply with all applicable regulations and requirements. All information supplied by or on behalf of PRI in relation to its products in the nature of data, recommendations or otherwise, is supported by research and believed reliable. PRI assumes no liability whatsoever in respect of application, processing or use made of the afore-mentioned information or products, or any consequence thereof. The user undertakes all liability in respect of the application, processing or use of the afore-mentioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to PRI for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the afore-mentioned information or products by the user.