



PLASTIC RECYCLING, INC.

Plastic Waste Specialists

RECYCLED
COMPOUNDS

TECHNICAL DATA SHEET

PS

GPPS 04-00 NATURAL 001

GPPS

General Purpose Polystyrene, transparent blue tint.

Description

Extrusion, Thermoforming and Injection Molding

Processing Methods

Used for extrusion or injection application, as well as standard applications.

Typical Applications

USA, Mexico, Europe

Availability

ASTM

Test Methods

[REC 30%]

V0-02-26

TYPICAL PROPERTIES

Physical	Method	Conditions	Value	Unit
Melt mass-flow rate	ASTM D1238 Procedure B	200°C - 5.0 kg	4.0	g/10'
Density	ASTM D792 Method A	73°F	1040	kg/m³

Mechanical	Method	Conditions	Value	Unit
Flexural modulus	ASTM D790	73°F - 0.05 in/min	465000	psi
Flexural strength	ASTM D790	73°F - 0.05 in/min	13500	psi
Tensile Modulus	ASTM D638	73°F - 0.05 in/min	475000	psi
Tensile stress at Yield	ASTM D638	73°F - 2 in/min	7200	psi
Tensile stress at Break	ASTM D638	73°F - 2 in/min	7100	psi
Elongation at Yield	ASTM D638	73°F - 2 in/min	3.0	%
Elongation at Break	ASTM D638	73°F - 2 in/min	4.5	%
Izod Pendulum Impact Resistance	ASTM D256	73°F	0.3	ft*lb/in

Thermal	Method	Conditions	Value	Unit
Deflection Temperature Under Load	ASTM D648	(264 psi, Unanneled)	174	°F
Deflection Temperature Under Load	ASTM D648	(66 psi, Unanneled)	194	°F
Vicat softening temperature	ASTM D1525	Loading 2 - Rate A (50N-50 C/h)	203	°F

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