

# Diamond GPPS GP-543

General Purpose Polystyrene

Diamond Polystyrene

Message:

DIAMOND GPPS 543: a general purpose Polystyrene grade. It gives excellent clarity, superior lflexibility and good surface shine. It has good dimensional stability at high temperatures.

General Information			
Features	Good Dimensional Stability		
	Good Flexibility		
	Good Flow		
	Good Moldability		
	Good Strength		
	Good Surface Finish		
	High Clarity		
Uses	Appliance Components		
	Containers		
	Cosmetics		
	Cups		
	General Purpose		
	Household Goods		
	Optical Applications		
	Stationary Supplies		
	Table Products		
	Thin-walled Parts		
Appearance	Toys		
Appearance		Clear - Blue Tint	
Forms		Pellets	
Processing Method		Injection Molding	
Physical	Nominal Value	Unit	
Specific Gravity	1.04	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (230°C/1.2 kg)	9.5	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	39.2	MPa	ASTM D638
Tensile Elongation (Break)	1.2	%	ASTM D638
Flexural Modulus	69.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525

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