

# Diamond GP-565

## General Purpose Polystyrene

Pak Petrochemical Industries (Pvt.) Ltd.

### Message:

Polystyrene is a highly transparent material. It gives excellent mechanical and heat resistance properties while providing with easy process ability and molding applications.

#### Characteristics:

Blue Tined,

Excellent Clarity,

Good Flow, Low Volatility

(Below 1000 ppm)

#### Applications:

House ware, Containers, Toys, Ball point pens, Drinking cups and thin wall applications

General Information			
Features	Recyclable materials		
	Workability, good		
	Good formability		
	Good liquidity		
	Heat resistance, high		
	Definition, high		
	Compliance of Food Exposure		
Uses	Thin wall parts		
	Cup		
	Household goods		
	Container		
	Toys		
	Stationery		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Transparent-Light Blue		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	18	g/10 min	ASTM D1238
Water Absorption			
23°C, 24 hr, 50% RH	< 0.10	%	
Balance	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	37.3	MPa	ASTM D638

Fracture	37.3	MPa	ASTM D638
Tensile Elongation (Break)	0.90	%	ASTM D638
Flexural Strength	63.7	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	88.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	< 260	°C	
NOTE			
1.	23°C		

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#### Recommended distributors for this material

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