

# Diamond GP-525 X

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:

No internal lubricant  
Blue Tinted,  
Excellent Clarity,  
Good Flow, Low Volatility  
(Below 1000 ppm)

Applications:

This grade is specifically suited for Extruded Polystyrene (XPS) production application as it comes without any lubricant to give end product a unified cell structure. Moreover, it can also be used for general injection moulding.

General Information			
Features	Recyclable materials		
	Workability, good		
	Good formability		
	Good liquidity		
	Heat resistance, high		
	Definition, high		
	Compliance of Food Exposure		
Uses	General		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Transparent-Light Blue		
Forms	Particles		
Processing Method	Extrusion		
	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)	6.0	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	44.8	MPa	ASTM D638
Fracture	44.8	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638

Flexural Strength	87.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	15	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	92.0	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	< 260	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	< 260	°C	
NOTE			
1.	23°C		

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#### Recommended distributors for this material

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