

A Product by Pak Polystyrene

DIAMOND G 500N

Characteristics:

o Natural tinted.

o Excellent Clarity.

o Superior Mold capability, Good Flow, Low Volatility, (Below 1000 ppm) Processing: o Injection Molding Applications: House ware, Containers, Plastic refrigerator parts, Toys and Lampshield, Drinking cups, Stationery items, CD casing, Plastic hangers, optical parts, plastic Bagels, plastic time piece parts, Cosmetic packaging parts & very useful for thin wall molding.

Material Status

TYPICAL PROPERTIES			
	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm ²	400
Tensile Elongation	ASTM D-638	%	1.2
Flexural Strength	ASTM D-790	kgf/cm	750
Izod Impact Strength	ASTM D-256	Kg-cm/cm	1.6
Thermal Properties			
Vicat Softening Temp	ASTM D-1525	0C	96
Heat Distortion Temp	ASTM D-648	0 C	85
General Properties			
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	9
Processing			
Specific Gravity		23/23°C	1.05















Product Description

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

Processing

Although Polystyrene GP-500N can be processed by any method applicable to polystyrene based plastic, it is best suitable for injection molding and extrusion molding. The melt temperatures should not exceed 260° C.

Product Safety

During processing of Polystyrene GP-525, small quantity of Styrene Monomer may be released into the atmosphere. At styrene vapor concentrations below 20 ppm, no negative health effects are expected. In our experience, the concentration of styrene does not exceed 1 ppm in good ventilate workplace.

Form Supplied & Storage

Polystyrene GP-525 is supplied as cylindrical shaped granules. It has to be kept in its original containers in a dry, cool place. Avoid direct exposure to sunlight. PS GP-525 can also be stored in silos.

Food Legislation

If used unmodified and under appropriated processing conditions, Polystyrene GP-525 conforms with FDA title 21 CFR section 177.1640 regarding the use of in food contact articles. Diamond Polystyrene is also approved by PCSIR (Pakistan Council of Scientific & Industrial Research).

Environmental

Diamond polystyrene resins can be recycled. Adequate ventilation should be used during processing. Diamond Polystyrene must not be dispose of to landfill or incineration as per government laws and regulations.

Note:

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