

Pakro Kimya Dış Ticaret A.Ş.

İstoç Ticaret Merkezi Aktem Plaza Kat:5 Daire:33 Bağcılar/İstanbul

GP Diamond Polystyrene

DIAMOND GP-500N

Characteristics:

- Natural Tinted,
- Excellent Clarity, Good Strength
- Superior Mold Capability, Good Flow, Low Volatility, (Below 1000 ppm)
- Brilliant Process Ability during Molding

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Material Status

Processing:

Injection Molding

Pak Petrochemical

Industries (Pvt.) Ltd GENERAL PURPOSE POLYSTYRENE (GPPS)

Applications:

House ware, Containers, Toys, Drinking cups, Table ware, Optical parts, Plastic bangles, Plastic time pieces parts, Cosmetic packing parts, Plastic refrigerator components, Stationery products, and material are very useful for thin wall molding.

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm2	390
Tensile Modulus	ASTM D-638	kgf/cm ₂	30000
Tensile Elongation	ASTM D-638	%	1.2
Flexural Strength	ASTM D-790	kgf/cm ₂	700
Flexural Modulus	ASTM D-790	kgf/cm ₂	34000
Izod Impact Strength	ASTM D-256	Kg-cm/cm	1.6
Thermal Properties			
Vicat Softening Temp	ASTM D-1525	υC	97
Heat Distortion Temp	ASTM D-648	0 C	88
General Properties			
Melt Flow Rate MFR 200/5	ASTM D-1238	Gm / 9 min	9
Processing			
Specific Gravity	ASTM D-792	23/23 ₀ C	1.05
Miscellaneous Properties			
Water Absorption		%	<0.1
Moisture Adsorption (23 C/50% r.h)		%	<0.1
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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. The melt temperatures should not exceed		
	260 °C.		
Product Safety	During processing of Polystyrene GP-500N, 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 &	Polystyrene GP-500N is supplied as cylindrical shaped granules. It has to be kept in its original		
Storage	containers in a dry, cool place, Avoid direct exposure to sunlight. PS GP-500N can also be		
	stored in silos.		
Food Legislation	If used unmodified and under appropriated processing conditions, Polystyrene GP-500N		
0	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		
Environmental	Research).		
	Diamond polystyrene resins can be recycled, incinerated or disposed off in landfill without detriment to the environment. Adequate ventilation should be used during processing. Where recycling of Diamond Polystyrene is not possible, disposal to landfill or		
	incineration in accordance with all applicable government laws and regulations is		
	recommended.		

Note:

The information & recommendations in this publications are, best of our knowledge, reliable, suggestions concerning used or applications are only the opinion of Pak Petrochemical Industries (Pvt.) Ltd. and users should perform their own test to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting results, Pak Petrochemical MAKES NO WARRANT OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MANUFACTURING AND FITNESS FOR PURPOSE, other than that the material conforms to the applicable current standard specification statement herein, therefore should not be construed as representations or warranties.



"Committed to Supply Quality Products"

Pak Petrochemical Industries (Pvt.) Ltd.

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