

DIOKI GPPS 605[®]

dioki

GENERAL PURPOSE POLYSTYRENE

MATERIAL DESCRIPTION

DIOKI GPPS 605[®] is transparent general purpose polystyrene exhibiting good melt flow properties.


DIOKI GPPS 605[®] has been specially developed for the production of transparent parts used in refrigerators, especially by injection molding. This type of polystyrene shows short processing time, excellent machinability and good optical properties.


TECHNICAL PROPERTIES

| Physical Properties | Standard Method | Value | Unit |
|--|-----------------|-------|-------------------|
| Melt Flow Index (200 °C/ 5kg) | ASTM D 1238 | 5,5 | g/10 min. |
| Density | ISO 1183 | 1040 | kg/m ³ |
| Thermal Properties | Standard Method | Value | Unit |
| Vicat Softening Temperature (Rate B, 10N) | ASTM D 1525 | 96 | °C |
| Heat Distortion Temp. (Method B, 0.45 MPa) | ASTM D 648 | 82 | °C |
| Mechanical Properties | Standard Method | Value | Unit |
| Tensile Properties | ASTM D 638 | | |
| Strength at Break | | 36 | MPa |
| Elongation at Break | | 1,2 | % |
| Tensile Modulus | | 3200 | MPa |
| Flexural Properties | ASTM D 790 | | |
| Strength | | 70 | MPa |
| Modulus | | 3050 | MPa |
| Izod Impact Resistance, Notched (23°C) | ASTM D 256 | 13 | J/m |
| Processing Conditions | Value | Unit | |
| Processed in Melt Temperature Range | 170-230 | °C | |
| Mould Shrinkage | 0,4-0,6 | % | |
| Tool Temperature | 20-60 | °C | |

Legal Information: The above information is given based on the knowledge and experience of Dioki Petrokimya staff. Any information contained herein shall not be construed as a part of legally binding offer.

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APPLICATION

XPS can be used in the production of thin-walled general purpose products, refrigerator interior accessories, toys, cosmetics and medicine boxes produced by injection molding.

STORAGE AND HANDLING

DIOKI GPPS 605[®] is packed in polyethylene bags of 25 kg on wooden pallets having dimensions of 110x130 cm as 1 pallet net 1.375 kg. (Depend on the costumers demand, net 1.250 kg bigbag can be supplied) The pallets are covered and secured with stretch film.


DIOKI GPPS 605[®] should be protected from direct sunlight and rain/water. If possible, it should stored in dry, cool and closed area.


Regards,

Dioki Petrochemical

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