

DIOKI HIPS 703[®]

dioki

HIGH IMPACT POLYSTYRENE

MATERIAL DESCRIPTION

DIOKI HIPS 703[®] is high impact polystyrene specially developed for processing by extrusion and thermoforming.

DIOKI HIPS 703[®] has excellent resistance to hydrocarbons used in the fridge sector as blowing agent for PU insulating foams (ESCR). This polystyrene grade is characterized by high impact strength and good tensile strength.

TECHNICAL PROPERTIES

Physical Properties	Standard Method	Value	Unit
Melt Flow Index (200 °C/ 5kg)	ASTM D 1238	2,7	g/10 min.


Thermal Properties	Standard Method	Value	Unit
Vicat Softening Temperature (Rate B, 10N)	ASTM D 1525	102	°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 Yield		14	
Strength at Break		21	MPa
Elongation at Break		70	%
Tensile Modulus		1300	MPa
Flexural Properties	ASTM D 790		
Strength		33	MPa
Modulus		1400	MPa
Izod Impact Resistance, Notched (23°C)	ASTM D 256	102	J/m

Processing Conditions	Value	Unit
Processed in Melt Temperature Range	160-230	°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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TURKEY

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APPLICATION

Extruded and thermoformed for; interior refrigerator walls(ESCR), food processing industry and other extruded products. It is miscible with other **DIOKI GPPS[®]/HIPS[®]** Polystyrene grades, but it is not miscible with ABS and SAN plastomers.

STORAGE AND HANDLING

DIOKI HIPS 703[®] is packed in polyethylene bags of 25 kg on wooden pallets having dimensions of 110 x 130 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 HIPS 703[®] 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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