

# DIOKI HIPS 810G<sup>®</sup>

dioki

## HIGH IMPACT POLYSTYRENE

### MATERIAL DESCRIPTION

DIOKI HIPS 810G<sup>®</sup> is polystyrene with a high gloss surface, specially developed for injection molding. It shows high melt flow feature, fills the molds completely.

### TECHNICAL PROPERTIES

Physical Properties	Standard Method	Value	Unit
Melt Flow Index (200 °C/ 5kg)	ASTM D 1238	9,5	g/10 min.

Thermal Properties	Standard Method	Value	Unit
Vicat Softening Temperature (Rate B, 10N)	ASTM D 1525	97	°C
Heat Distortion Temp. (Method B, 0.45 MPa)	ASTM D 648	81	°C


Mechanical Properties	Standard Method	Value	Unit
<b>Tensile Properties</b>	ASTM D 638		
Strength at Yield		20	
Strength at Break		16	MPa
Elongation at Break		62	%
Tensile Modulus		2150	MPa
<b>Flexural Properties</b>	ASTM D 790		
Strength		38	MPa
Modulus		2080	MPa
Izod Impact Resistance, Notched (23°C)	ASTM D 256	70	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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### APPLICATION

DIOKİ HIPS 810G<sup>®</sup> can be used in the production of parts with high impact resistance and flexibility, which can be produced by injection molding with a glossy surface, and in the production of technical parts such as toys, office equipment, air conditioners, refrigerators.

### STORAGE AND HANDLING

DIOKİ HIPS 810G<sup>®</sup> 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.

DIOKİ HIPS 810G<sup>®</sup> 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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