

# DIOKI HIPS 803<sup>®</sup>

dioki

## HIGH IMPACT POLYSTYRENE

### MATERIAL DESCRIPTION

DIOKI HIPS 803<sup>®</sup> is high impact polystyrene has high impact strength and temperature resistance and specially developed for processing by extrusion and thermoforming.


### TECHNICAL PROPERTIES

Physical Properties	Standard Method	Value	Unit
Melt Flow Index (200 °C/ 5kg)	ASTM D 1238	3,4	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	84	°C
Mechanical Properties	Standard Method	Value	Unit
<b>Tensile Properties</b>	ASTM D 638		
Strength at Yield		18	
Strength at Break		21	MPa
Elongation at Break		70	%
Tensile Modulus		1800	MPa
<b>Flexural Properties</b>	ASTM D 790		
Strength		37	MPa
Modulus		1800	MPa
Izod Impact Resistance, Notched (23°C)	ASTM D 256	94	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.

 **Email**  
info@dioki.com.tr

 **Phone**  
+90 (322) 634 20 15-16-17

 **Address**  
Adana-Yumurtalık Serbest Bölgesi  
Sarımazı SB Mah. 3. Cadde No:2/1  
Zip Code: 01920 Ceyhan/Adana-  
TURKEY

# DIOKI HIPS 803<sup>®</sup>

dioki

## HIGH IMPACT POLYSTYRENE

### APPLICATION

Extruded and thermoformed products, mainly cups used for dairy products, other thermoformed plastic containers used in food processing industry, mixing with **DIOKI GPPS<sup>®</sup>/HIPS<sup>®</sup>** grades, injection moulded products having small dimensions and thick walls, but it does not use with ABS and SAN plastomers.

### STORAGE AND HANDLING

**DIOKI HIPS 803<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.

**DIOKI HIPS 803<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*

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.



**Email**

info@dioki.com.tr



**Phone**

+90 (322) 634 20 15-16-17



**Address**

Adana-Yumurtalık Serbest Bölgesi  
Sarımazı SB Mah. 3. Cadde No:2/1  
Zip Code: 01920 Ceyhan/Adana-  
TURKEY