

HIPS 04

HIGH IMPACT POLYSTYRENE

MATERIAL DESCRIPTION

Our HIPS 04 is high impact polystyrene has high impact strength and temperature resistance and specially developed for processing by extrusion and thermoforming.

APPLICATION

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

TECHNICAL PROPERTIES AND PROCESSING CONDITIONS

PHYSICAL PROPERTIES	ASTM METHOD	VALUE	UNIT
Melt Flow Index (200 °C/ 5kg)	D 1238	4,0	g/10 min.
THERMAL PROPERTIES	ASTM METHOD	VALUE	UNIT
Vicat Softening Temperature (Rate B, 10N)	D 1525	101,5	°C
Heat Distortion Temp. (Metot B, 0.45 MPa)	D 648	83,9	°C
MECHANICAL PROPERTIES	ASTM METHOD	VALUE	UNIT
Tensile Properties	D 638		
Strength at Yield		15	MPa
Strength at Break		19	MPa
Elongation at Break		55	%
Tensile Modulus		1570	MPa
Flexural Properties	D 790		
Strength		34	MPa
Modulus		1600	MPa
Izod Impact Resistance, Notched (23°C)	D 256	76	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

STORAGE AND HANDLING

Our HIPS 04 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.

Our HIPS 04 is protected from direct sunlight and rain/water and stored in dry, cool and closed area.