

GPSS 05.5

GENERAL PURPOSE POLYSTYRENE

MATERIAL DESCRIPTION

Our GPSS 05.5 is transparent general purpose polystyrene exhibiting good melt flow properties.

Our GPSS 05.5 is basically intended for extrusion, foam extrusion and injection moulding of thick-walled moulded products.

This polystyrene grade is characterized by good thermal and dimensional stability of moulded products.

APPLICATION

Production of foamed extruded polystyrene panels (XPS), in various foam applications, packaging in cosmetics and medicine, shower cabin, mixing with our other GPSS/HIPS grades.

TECHNICAL PROPERTIES AND PROCESSING CONDITIONS

PHYSICAL PROPERTIES	ASTM METHOD	VALUE	UNIT
Melt Flow Index (200 °C/ 5kg)	D 1238	5,5	g/10 min.
THERMAL PROPERTIES	ASTM METHOD	VALUE	UNIT
Vicat Softening Temperature (Rate B, 10N)	D 1525	105	°C
Heat Distortion Temp. (Metot B, 0.45 MPa)	D 648	92	°C
MECHANICAL PROPERTIES	ASTM METHOD	VALUE	UNIT
Tensile Properties	D 638		
Strength at Break		42	MPa
Elongation at Break		1,4	%
Tensile Modulus		3185	MPa
Flexural Properties	D 790		
Strength		80	MPa
Modulus		3220	MPa
Izod Impact Resistance, Notched (23°C)	D 256	12,0	J/m
PROCESSING CONDITIONS		VALUE	UNIT
Processed in Melt Temperature Range		180-230	°C
Mould Shrinkage		0,4-0,6	%
Tool Temperature		20-60	°C

STORAGE AND HANDLING

Our GPSS 05.5 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 GPSS 05.5 is protected from direct sunlight and rain/water and stored in dry, cool and closed area.