

Opole 06.09.2022

Material Data Sheet: PS (High Impact)

Polystyrene, for injection

Form: granules, colour: black

Properties	Test method	Test conditions	Units of measurement	Value
PHYSICAL				
Density	ISO 1183		g/cm ³	-
Flow index MFR	ISO 1133	200C/5 kg	g/10 min	10,4
Processing shrinkage	ISO 394-4	60x60x2	%	-
Moisture amount			%	-
MECHANICAL				
Elastic modulus (Young's modulus)	ISO 527	1 mm/min	MPa	1675
Stress at 1% elongation	ISO 527	1mm/min	Mpa	-
Stress at yield	ISO 527	1 mm/min	MPa	18,6
Pronounced plastic elongation	ISO 527	5 mm/min	%	3,9
Tensile strength	ISO 527	1 mm/min	MPa	18,6
Elongation at tensile strength	ISO 527	5 mm/min	%	3,9
Breaking strain	ISO 527	5 mm/min	MPa	15,8
Nominal break elongation	ISO 527	5 mm/min	%	49
Charpy impact toughness (notch)	ISO 179	20C	kJ/m ²	5,67
COMBASTIBILITY				
Combustibility	UL94	1,5 mm	class	HB

Mass temperature: 200 – 240 C, Mould temperature: 80 C

Information regarding drying before processing: this product should be dried at 80 C in 3-4 hours' time.

Packaging: octabin up to 1000 kg, big bags.

Translated by M.Fox / PROINVEST LLC