

Polymer	Characteristics	Application	Quality	Product Number
polypropylene	PP reinforced with mineral filler, X-ray shield properties	injection moulding	prime	1259000

Properties (in natural colour at 23°C)	Unit	Test Method	Value
General			
Symbols and abbreviated terms		STN EN ISO 1043-1	PP
Density	g/cm ³	STN EN ISO 1183-1	2,04
Type of the filler: GF, GB, MF, G			MF
Stabilisation: TS, LS, K			
Modification: FR, HI, MI, ME			
Colour: NA, F, BK			NA/F
Processing			
Processing method: IM, E	°C		IM
Melting point DSC	°C	STN EN ISO 11357-1	165
Melt temperature range	°C		200-250
Mould temperature range	°C		40-50
Injection pressure	MPa		70-120
Drying: temperature/time	°C/H		80/4
Water content	%	STN EN ISO 3344	0,2
Melt flow rate 230°C/2,16 kg	g/10 min	STN EN ISO 1133	10
Manufacturing shrinkage length / width	%	STN EN ISO 294-4	0,32/0,46
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	27
Elongation	%	STN EN ISO 527-2	5
Tensile modulus	MPa	STN EN ISO 527-2	3850
Flexural modulus	MPa	STN EN ISO 178	3680
Flexural strength	MPa	STN EN ISO 178	85
Charpy impact strength 23°C	kJ/m ²	STN EN ISO 179	25
Charpy impact strength -20°C	kJ/m ²	STN EN ISO 179	6
Charpy notched impact strength 23°C	kJ/m ²	STN EN ISO 179	1,5
Charpy notched impact strength -20°C	kJ/m ²	STN EN ISO 179	1
Thermal			
Heat deflection temperature	°C	STN EN ISO 75-2 (A)	135
Vicat softening point B	°C	STN EN ISO 306	155
Flammability			
Flammability	°flam.	UL - 94	HB
Glow wire test	°C	STN EN 60695-2-12	

Electrical			
Comparative tracking index CTI, A	V	STN EN 60112	
Volume resistivity	Ohm.m	STN 34 6460	
Surface resistivity	Ohm	STN 34 6460	
Electric strength	kV/mm	STN EN 60243-2	

Features

Modified PP for injection moulding with the content of 70% of mineral filler, X-ray shielding properties.
Used for production of hangers loads. Delivered in natural mode.

Packaging, transportation, storage

The product is packed either in hermetically closed thick-walled 25 kg PE bags placed on a 1.000 kg palette coated by a stretch film, or in PE bag inserted in bigbag placed on a 1.000 kg palette or in PE bag inserted in paper octabin placed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places protected against sun and thermal radiation.

NOTE:

Data and values are average measured values, they are intended for technical service advices and can be changed without prior notice.

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