TECHNICAL DATA SHEET
PC-Penta

Granulate for low-temperature shot-blasting

PC-Penta is a cross-linked product made of polycarbonate with a considerably longer service life than comparable polycarbonates. Due to its low absorption of moisture and exact cutting, PC-Penta has a greater resistance on impact and is optimally suited for cryogenic deflashing of highly sensitive rubber or caoutchouc products even at extreme temperatures.

By adding an antistatic agent already before the extrusion, the addition of other additives is no longer necessary even for older equipment.

Standard polycarbonate plastics disintegrate at approximately – 80°C. PC-Penta retains its structure and integrity in the shot-blasting process down to –170°C.

Chemical characterization	: Cross linked polycarbonate (PC)
Antistatic additive	: Amine
Specific weight	: 1,2 g/cm³ on ISO 1183
Powder density(1)	: ca. 700 – 800 g/Litre
Hardness (ball pressure H358/30)	: 110 on ISO 2039-1
Grain shape	: cylindrical
Colour	: crystal clear
Size(2)	: 0,50 mm : 0,75 mm : 0,85 mm : 1,00 mm : 1,25 mm : 1,50 mm : 2,00 mm
IZOD impact strength 23°C	: 85,0 kJ/m² on ISO 180/1A
IZOD impact strength -30°C	: 20,0 kJ/m² on ISO 180/1A
dimensional stability	: +140°C to -190°C
Water absorption Sat/23C	: 0,30% on ISO 62
Water absorption 23C/50RH	: 0,12% on ISO 62
Specific resistance	: >10^{14} Ohm*m on IEC 60093
Surface resistance	: 10^{16} Ohm on IEC 60093
Packing	: 25 kg box with PE- inlay : 125 kg fibre drum with PE- inlay

Other grain sizes and colour preference on request.

(1) depend by grain size
(2) +/- 20%

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