

# TECHNICAL DATA SHEET

## PC-Crystal

### Heavy-duty cryogenic deflashing product

Developed especially for cryogenic deflashing of rubber mouldings, PC- Crystal is made of 100 % cross-linked polycarbonate resin. The unique structure of the DIEBLAST compounds offers considerable technical and economical advantages compared with standard polycarbonate resins used in cryogenic deflashing systems. At temperatures below freezing, polycarbonate resin gets brittle and the pellets are subject to surface abrasion during the shot-blasting process. With decreasing temperatures, the abrasion increases until the pellet disintegrates on impact.

Standard polycarbonate plastics disintegrate at approximately – 80°C. PC-Crystal retains its structure and integrity in the shot-blasting process down to –120°C.

Chemical characterization : Cross linked polycarbonate (PC)

Antistatic additive : Amine

Specific weight : 1,2 g/cm<sup>3</sup> on ISO 1183

Powder density<sup>(1)</sup> : ca. 700 – 800 g/Litre

Hardness (ball pressure H358/30) : 110 on ISO 2039-1

Grain shape : cubical

Colour : clear blue

Size<sup>(2)</sup> : 0,50 mm

: 0,75 mm

: 1,00 mm

: 1,50 mm

: 2,00 mm

IZOD impact strength 23°C : 85,0 kJ/m<sup>2</sup> on ISO 180/1A

IZOD impact strength -30°C : 20,0 kJ/m<sup>2</sup> on ISO 180/1A

TABER abrasion resistance 23°C : 10mg

TABER abrasion resistance -30°C : 6mg

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<sup>14</sup> Ohm\*m on IEC 60093

Surface resistance : 10<sup>16</sup> 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%

