

CELANEX[®] 3300-2LM

30% glass-fiber reinforced, high flow, lubricated grade, enhanced for improved laser marking Celanex 3300-2LM is a 30% glass-filled PBT that is enhanced for improved laser marking graphics. It contains an internal lubricant for enhanced mold release. It is a lasermarkable grade available in a black color to mark white, The grade is specially formulated to yield crisp marks when subjected to a Nd:YAG laser or equivalent operated at 1064nm or 532nm. Lasers operating in the UV region (355nm) may yield different results

Product information Part Marking Code > PBT-GF30 < ISO 11469 **Rheological properties** Melt mass-flow rate 17 g/10min ISO 1133 250 °C Melt mass-flow rate. Temperature Melt mass-flow rate, Load 2.16 kg 0.3 - 0.5 % Moulding shrinkage range, parallel ISO 294-4, 2577 Typical mechanical properties **Tensile Modulus** 9200 MPa ISO 527-1/-2 Stress at break. 5mm/min 130 MPa ISO 527-1/-2 Strain at break, 5mm/min 2.5 % ISO 527-1/-2 Flexural Modulus 9700 MPa ISO 178 Flexural Strength 210 MPa ISO 178 Charpy impact strength, 23°C 46 kJ/m² ISO 179/1eU Charpy impact strength, -30°C 45 kJ/m² ISO 179/1eU Charpy notched impact strength, 23°C 8.5 kJ/m² ISO 179/1eA Charpy notched impact strength, -30°C 8.5 kJ/m² ISO 179/1eA 7.5 kJ/m² Izod notched impact strength, 23°C ISO 180/1A Hardness, Rockwell, M-scale 90 ISO 2039-2 Thermal properties Melting temperature, 10°C/min 225 °C ISO 11357-1/-3 60 °C Glass transition temperature, 10°C/min ISO 11357-1/-3 Temp. of deflection under load, 1.8 MPa 209 °C ISO 75-1/-2 25 E-6/K Coeff. of linear therm. expansion, parallel ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 100 E-6/K ISO 11359-1/-2 Other properties Humidity absorption, 2mm 0.2 % Sim. to ISO 62 Water absorption, 2mm 0.4 % Sim. to ISO 62 1530 kg/m³ Density ISO 1183

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Injection

Max. mould temperature	65 - 93 °C
Characteristics	
Additives	Release agent
Additional information Injection molding	Rear Temperature 450-470(230-240) deg F (deg C) Center Temperature 460-480(235-250) deg F (deg C) Front Temperature 470-500(240-260) deg F (deg C) Nozzle Temperature 480-500(250-260) deg F (deg C) Melt Temperature 460-500(235-260) deg F (deg C) Mold Temperature 150-200(65-93) deg F (deg C) Back Pressure 0-50 psi Screw Speed Medium Injection Speed Fast Injection speed, injection pressure and holding pressure have to be optimized to the individual article geometry. To avoid material degradation during processing low back pressure and minimum screw speed have to be used. Overheating of
Processing Texts Injection molding	 the material has to be avoided, in particular for flame retardant grades. Up to 25% clean and dry regrind may be used. Rear Temperature 450-470(230-240) deg F (deg C) Center Temperature 460-480(235-250) deg F (deg C) Front Temperature 470-500(240-260) deg F (deg C) Nozzle Temperature 480-500(250-260) deg F (deg C) Melt Temperature 460-500(235-260) deg F (deg C) Mold Temperature 150-200(65-93) deg F (deg C) Back Pressure 0-50 psi Screw Speed Medium Injection Speed, injection pressure and holding pressure have to be optimized to the individual article geometry. To avoid material degradation during processing
Injection molding Preprocessing Printed: 2023-09-14	low back pressure and minimum screw speed have to be used. Overheating of the material has to be avoided, in particular for flame retardant grades. Up to 25% clean and dry regrind may be used. To avoid hydrolytic degradation during processing, CELANEX resins have to be dried to a moisture level equal to or less than 0.02%. Drying should be done in a dehumidifying hopper dryer capable of dewpoints <-30°F (-34°C) at 250°F (121°C) for 4 hours. Page: 2 of 3





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