

CELANEX[®] 4022

fully opaque white PBT grade for light impermeable applications Celanex 4022 is a white PBT resin typically used for applications requiring very opaque parts.

Product information

Part Marking Code	PBT-MD16		ISO 11469
Rheological properties			
Melt mass-flow rate Melt mass-flow rate, Temperature Melt mass-flow rate, Load	250 2.16	kg	ISO 1133
Moulding shrinkage range, parallel	1.8 - 2.0	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus Stress at break, 5mm/min Strain at break, 5mm/min Flexural Strength Charpy impact strength, 23°C Charpy notched impact strength, 23°	8 86 33	MPa MPa % MPa kJ/m ² kJ/m ²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 179/1eA
Thermal properties Temp. of deflection under load, 1.8 M	Pa 63	°C	ISO 75-1/-2
Flammability Thickness tested	0.79	mm	UL 94
Electrical properties Comparative tracking index	PLC 1	PLC	UL 746A
Other properties Density	1460	kg/m ³	ISO 1183
Injection Max. mould temperature	65 - 93	°C	
Characteristics			
Additives	Release agent, Mineral Filler		









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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			
	the individual article geor low back pressure and m	netry. To avoid r inimum screw s pided, in particul	olding pressure have to be optimized to material degradation during processing peed have to be used. Overheating of lar for flame retardant grades. Up to 25%	
Processing Texts				
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			
	the individual article geometry. To avoid material degradation during processing 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.			
Injection molding Preprocessing	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.			
Other Approvals				
Other Approvals	OEM		Specification	
	Continental		SN 57908-4	
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