



CALCIUM CARBONATE REINFORCED PP

SINPOLENE CPP 1040

Technical data sheet

MECHANICAL			
TEST ITEMS	ASTM METHOD	UNITS	VALUE
Tensile Strength @ Yield	D-638	MPa	24
Notched Izod Impact Strength, 23°C	D-256	J/M	45
Flexural Strength	D-790	MPa	37
Flexural Modulus	D-790	MPa	1800
THERMAL			
Heat Deflection Temp @0.45MPa	D-648	°C	110
Melting Point	DSC	°C	160
PHYSICAL			
Specific Gravity	D-792	g/cm ³	1.23
Mold Shrinkage	D-955	in/in	0.009 0.002
Melt Flow Index (230°C, 2.16kg)	D-1238	g/10 min	3.5

APPLICATIONS:

Automotive and Industrial Components

Custom colours are available upon request.

PROCESSING

The optimum cylinder temperature will depend upon the size and complexity of the moulding.

Cylinder Temperature: 220 - 260°C

Mould Temperature: 40 - 60°C

Mould Design

Moulds should be designed to obtain rapid filling and multiple gates for large are mouldings are recommended with the gates positioned to avoid the possible formation of weld lines.

Machine and Mould Wear

The intensive compounding action which takes place during the manufacture of SINPOLENE materials ensures encapsulation of the reinforcement in polymer. This tends to minimize wear on injection screws and moulds. There is no evidence to show that any SINPOLENE materials causes corrosion of mould steels.

Pre-Drying

Pre-drying: 95°C for 2-4 hours in a shallow tray is recommended.

Excess moisture may show as splash marks on the surface of the finished mouldings.

Use of Regrind

Runners, sprues and scrap mouldings can be reground and blended with virgin material. Regrind additions should not exceed 10% by weight of the virgin material, otherwise some reduction in properties may be experienced.

Health and Safety

Owing to the heat retention properties of calcium carbonate reinforced polypropylene, circumstances can arise when freak ignition may take place. It is recommended, therefore, that this factor be borne in mind when disposing of purgings and to avoid any fire hazard, the waste material should be cooled in water.

The information presented in this data sheet is believed to be reliable and accurate. Since the conditions under which these materials are used are beyond our control, all suggestions and recommendations are made without guarantee. Values presented are typical and intended to serve as guides only. These values should not be considered as limits to the specifications.