

# MAJORIS CETAL DG330

Acetal (POM) Copolymer

AD majoris

## Message:

CETAL DG330 is a 30 % glass fibre reinforced polyoxymethylen (POM), intended for injection moulding.

### APPLICATIONS

The product is available in both natural but other colours can be provided on request.

CETAL DG330 has been developed especially for the automotive applications and electrical components.

| General Information                               |                                                       |                   |                 |
|---------------------------------------------------|-------------------------------------------------------|-------------------|-----------------|
| Filler / Reinforcement                            | Glass fiber reinforced material, 30% filler by weight |                   |                 |
| Uses                                              | Electrical components                                 |                   |                 |
|                                                   | Application in Automobile Field                       |                   |                 |
| Appearance                                        | Available colors                                      |                   |                 |
|                                                   | Natural color                                         |                   |                 |
| Forms                                             | Particle                                              |                   |                 |
| Processing Method                                 | Injection molding                                     |                   |                 |
| Physical                                          | Nominal Value                                         | Unit              | Test Method     |
| Density                                           | 1.62                                                  | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)         | 5.0                                                   | g/10 min          | ISO 1133        |
| Water Absorption                                  |                                                       |                   | ISO 62          |
| Saturated, 23°C                                   | 0.55                                                  | %                 | ISO 62          |
| Equilibrium, 23°C, 50% RH                         | 0.16                                                  | %                 | ISO 62          |
| Mechanical                                        | Nominal Value                                         | Unit              | Test Method     |
| Tensile Modulus                                   | 9500                                                  | MPa               | ISO 527-2       |
| Tensile Strain (Yield)                            | 2.5                                                   | %                 | ISO 527-2/1A/50 |
| Flexural Modulus                                  | 8100                                                  | MPa               | ISO 178         |
| Impact                                            | Nominal Value                                         | Unit              | Test Method     |
| Charpy Notched Impact Strength                    |                                                       |                   | ISO 179         |
| -30°C                                             | 8.0                                                   | kJ/m <sup>2</sup> | ISO 179         |
| 23°C                                              | 8.0                                                   | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                           | Nominal Value                                         | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 160                                                   | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                       | 158                                                   | °C                | ISO 306/B       |
| Electrical                                        | Nominal Value                                         | Unit              | Test Method     |
| Dielectric Strength                               | 40                                                    | kV/mm             | IEC 60243-1     |
| Injection                                         | Nominal Value                                         | Unit              |                 |
| Processing (Melt) Temp                            | 190 - 210                                             | °C                |                 |

|                    |             |     |
|--------------------|-------------|-----|
| Mold Temperature   | 80.0 - 110  | °C  |
| Injection Pressure | 60.0 - 200  | MPa |
| Back Pressure      | 0.00 - 2.00 | MPa |

#### Injection instructions

Hold-on Pressure: equal injection pressure

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