

# MAJORIS CT208

Polypropylene

AD majoris

## Message:

CT208 is a natural, 20% mineral filled grade intended for injection moulding.

The product is available in natural (CT208) and black (CT208 - 8229)but other colours can be supplied on request.

CT208 has been developed especially for the car industry, to be used in interior parts and also for the white good industry especially for applications requiring high detergent resistance and heat stability.

## APPLICATIONS

Automotive interior parts

Washing machine parts

Dishwasher components

| General Information                  |                                                           |                   |              |
|--------------------------------------|-----------------------------------------------------------|-------------------|--------------|
| Filler / Reinforcement               | Mineral filler, 20% filler by weight                      |                   |              |
| Features                             | Recyclable materials                                      |                   |              |
|                                      | Detergent resistance                                      |                   |              |
|                                      | Thermal stability, good                                   |                   |              |
| Uses                                 | Large household appliances and small household appliances |                   |              |
|                                      | Home appliance components                                 |                   |              |
|                                      | Application in Automobile Field                           |                   |              |
|                                      | Car interior parts                                        |                   |              |
| Appearance                           | Black                                                     |                   |              |
|                                      | Available colors                                          |                   |              |
|                                      | Natural color                                             |                   |              |
| Forms                                | Particle                                                  |                   |              |
| Processing Method                    | Injection molding                                         |                   |              |
| Physical                             | Nominal Value                                             | Unit              | Test Method  |
| Density                              | 1.04                                                      | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR)            |                                                           |                   | ISO 1133     |
| 230°C/2.16 kg                        | 3.0                                                       | g/10 min          | ISO 1133     |
| 230°C/5.0 kg                         | 14                                                        | g/10 min          | ISO 1133     |
| Molding Shrinkage                    | 1.1                                                       | %                 |              |
| Hardness                             | Nominal Value                                             | Unit              | Test Method  |
| Ball Indentation Hardness (H 358/30) | 90.0                                                      | MPa               | ISO 2039-1   |
| Mechanical                           | Nominal Value                                             | Unit              | Test Method  |
| Tensile Modulus                      | 2800                                                      | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)               | 35.0                                                      | MPa               | ISO 527-2/50 |
| Tensile Strain (Yield)               | 4.7                                                       | %                 | ISO 527-2/50 |

| Flexural Modulus <sup>1</sup>                         | 2700          | MPa               | ISO 178     |
|-------------------------------------------------------|---------------|-------------------|-------------|
| Impact                                                | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength                        |               |                   | ISO 179/1eA |
| -20°C                                                 | 1.3           | kJ/m <sup>2</sup> | ISO 179/1eA |
| 23°C                                                  | 2.3           | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength                      |               |                   | ISO 179/1eU |
| -20°C                                                 | 19            | kJ/m <sup>2</sup> | ISO 179/1eU |
| 23°C                                                  | 52            | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                               | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature                           |               |                   |             |
| 0.45 MPa, not annealed                                | 135           | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed                                 | 70.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                           |               |                   |             |
| --                                                    | 154           | °C                | ISO 306/A   |
| --                                                    | 105           | °C                | ISO 306/B   |
| Flammability                                          | Nominal Value | Unit              | Test Method |
| Flame Rating                                          | HB            |                   | UL 94       |
| Fogging                                               |               |                   | DIN 75201   |
| 100°C/16h                                             | 5.0E-4        | g                 | DIN 75201   |
| 100°C/3h                                              | 95            | %                 | DIN 75201   |
| Injection                                             | Nominal Value | Unit              |             |
| Drying Temperature                                    | 80.0          | °C                |             |
| Drying Time                                           | 3.0           | hr                |             |
| Processing (Melt) Temp                                | 210 - 260     | °C                |             |
| Mold Temperature                                      | 30.0 - 50.0   | °C                |             |
| Injection Rate                                        | Moderate      |                   |             |
| Injection instructions                                |               |                   |             |
| Holding pressure: 50 to 70% of the injection pressure |               |                   |             |
| NOTE                                                  |               |                   |             |
| 1.                                                    | 5.0 mm/min    |                   |             |

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