

# MAJORIS EE097 - 7803

Polypropylene

AD majoris

## Message:

EE097 - 7803 is a 8 % mineral filled polypropylene compound intended for injection moulding.

EE097 - 7803 has been developed especially for the automotive parts, requiring good impact strength/stiffness, very good scratch resistance and UV stabilised.

The product is available in natural (EE097) but other colours can be provided on request.

## APPLICATIONS

Automotive parts

| General Information                       |                                       |                   |              |
|-------------------------------------------|---------------------------------------|-------------------|--------------|
| Filler / Reinforcement                    | Mineral filler, 8.0% filler by weight |                   |              |
| Additive                                  | UV stabilizer                         |                   |              |
| Features                                  | Rigid, good                           |                   |              |
|                                           | Impact resistance, good               |                   |              |
|                                           | Good UV resistance                    |                   |              |
|                                           | Recyclable materials                  |                   |              |
|                                           | Scratch resistance                    |                   |              |
| Uses                                      | Application in Automobile Field       |                   |              |
| Appearance                                | Available colors                      |                   |              |
|                                           | Natural color                         |                   |              |
| Forms                                     | Particle                              |                   |              |
| Processing Method                         | Injection molding                     |                   |              |
| Physical                                  | Nominal Value                         | Unit              | Test Method  |
| Density                                   | 0.953                                 | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12                                    | g/10 min          | ISO 1133     |
| Molding Shrinkage                         | 1.2                                   | %                 |              |
| Mechanical                                | Nominal Value                         | Unit              | Test Method  |
| Tensile Modulus                           | 1750                                  | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)                    | 21.0                                  | MPa               | ISO 527-2/50 |
| Tensile Strain (Yield)                    | 6.0                                   | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>             | 1600                                  | MPa               | ISO 178      |
| Impact                                    | Nominal Value                         | Unit              | Test Method  |
| Charpy Notched Impact Strength            |                                       |                   | ISO 179/1eA  |
| -20°C                                     | 5.0                                   | kJ/m <sup>2</sup> | ISO 179/1eA  |
| 23°C                                      | 21                                    | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy Unnotched Impact Strength          |                                       |                   | ISO 179/1eU  |
| -20°C                                     | 62                                    | kJ/m <sup>2</sup> | ISO 179/1eU  |

| 23°C                                                  | 170           | kJ/m <sup>2</sup> | ISO 179/1eU |
|-------------------------------------------------------|---------------|-------------------|-------------|
| Notched Izod Impact                                   |               |                   | ISO 180/1A  |
| 0°C                                                   | 6.0           | kJ/m <sup>2</sup> | ISO 180/1A  |
| 23°C                                                  | 26            | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                               | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature                           |               |                   |             |
| 0.45 MPa, not annealed                                | 100           | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed                                 | 55.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                           |               |                   |             |
| --                                                    | 136           | °C                | ISO 306/A   |
| --                                                    | 54.0          | °C                | ISO 306/B   |
| Flammability                                          | Nominal Value | Test Method       |             |
| Flame Rating                                          | HB            | UL 94             |             |
| Injection                                             | Nominal Value | Unit              |             |
| Drying Temperature                                    | 80.0          | °C                |             |
| Drying Time                                           | 3.0           | hr                |             |
| Processing (Melt) Temp                                | 220 - 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.                                                    | 2.0 mm/min    |                   |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

