# Daplen™ EE260AE

Polypropylene

Borealis AG

## Message:

Daplen EE260AE is a 20% mineral filled elastomer modified polypropylene compound intended for injection moulding.
This material has an excellent balance between impact strength and stiffness, gives a good surface quality and is easy to process.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Mineral filler, 20% filler by weight | | |
| Additive | Impact modifier<br>UV stabilizer | | |
| Features | Impact modification<br>Rigid, good<br>Impact resistance, good<br>Good UV resistance<br>Workability, good<br>Scratch resistance<br>Excellent appearance | | |
| Uses | Car anti-collision bar<br>Application in Automobile Field<br>Automotive exterior parts | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.07 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 13 | g/10 min | ISO 1133 |
| Molding Shrinkage (23°C) | 0.90 | % | Internal method |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Ball Indentation Hardness (H 132/10) | 42.0 | MPa | ISO 2039-1 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (23°C, Injection Molded) | 1900 | MPa | ISO 527-2/1 |
| Tensile Stress (Yield, 23°C, Injection Molded) | 23.0 | MPa | ISO 527-2/50 |
| Tensile Strain | | | ISO 527-2/50 |
| Yield, 23°C, injection molding | 5.0 | % | ISO 527-2/50 |
| Fracture, 23°C, injection molding | 50 | % | ISO 527-2/50 |

| | | | |
|---|---|---|---|
| Flexural Modulus [1] (23°C, Injection Molded) | 2050 | MPa | ISO 178 |
| Flexural Stress (23°C, Injection Molded) | 32.0 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C, injection molding | 2.5 | kJ/m² | ISO 179/1eA |
| -20°C, injection molding | 3.5 | kJ/m² | ISO 179/1eA |
| 23°C, injection molding | 24 | kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -30°C, injection molding | 76 | kJ/m² | ISO 179/1eU |
| 23°C, injection molding | No Break | | ISO 179/1eU |
| Notched Izod Impact | | | ISO 180/1A |
| -20°C, injection molding | 3.3 | kJ/m² | ISO 180/1A |
| 23°C, injection molding | No Break | | ISO 180/1A |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature | | | |
| 0.45 MPa, not annealed | 97.0 | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | 53.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 130 | °C | ISO 306/A50 |
| -- | 52.0 | °C | ISO 306/B50 |
| CLTE - Flow (-30 to 80°C) | 5.5E-5 | cm/cm/°C | Internal method |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 80.0 | °C | |
| Drying Time | 2.0 | hr | |
| Hopper Temperature | 40.0 - 80.0 | °C | |
| Processing (Melt) Temp | 220 - 260 | °C | |
| Mold Temperature | 30.0 - 50.0 | °C | |
| Holding Pressure | 30.0 - 60.0 | MPa | |
| **Injection instructions** | | | |
| Back pressure: Low to mediumScrew speed: Low to mediumFlow front speed: 100 - 200 mm/s | | | |
| **NOTE** | | | |
| 1. | 2.0 mm/min | | |



Recommended distributors for this material

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