# MAJORIS ET120

Polypropylene

AD majoris

## Message:

ET120 is a mineral filled polypropylene compound intended for injection moulding.
The product is available in black (ET120 - 8229) and natural (ET120) but other colours can be provided on request.
ET120 has a easy flow very good processability, excellent surface quality and very low dust pick up.
APPLICATIONS
ET120 is intended for components, which require very good surface quality, rigidity, good impact, antistatic, low shrinkage and high dimensional stability.
Electrical appliances
Household articles
Technical components

| General Information | |
|---|---|
| Filler / Reinforcement | Mineral filler, 10% filler by weight |
| Features | Good dimensional stability<br>Antistatic property<br>Impact resistance, good<br>Recyclable materials<br>Workability, good<br>Good liquidity<br>Low shrinkage<br>Good appearance<br>Excellent appearance<br>Medium hardness |
| Uses | Electrical/Electronic Applications<br>Electrical appliances<br>Household goods |
| Appearance | Black<br>Available colors<br>Natural color |
| Forms | Particle |
| Processing Method | Injection molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.980 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | | | ISO 1133 |
| 230°C/2.16 kg | 14 | g/10 min | ISO 1133 |
| 230°C/5.0 kg | 56 | g/10 min | ISO 1133 |
| Molding Shrinkage | 1.4 | % | |

| Hardness | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Ball Indentation Hardness (H 358/30) | 71.5 | MPa | ISO 2039-1 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 1900 | MPa | ISO 527-2/1 |
| Tensile Stress (Yield) | 36.0 | MPa | ISO 527-2/5 |
| Tensile Strain | | | ISO 527-2/5 |
| Yield | 6.0 | % | ISO 527-2/5 |
| Fracture | 28 | % | ISO 527-2/5 |
| Flexural Modulus [1] | 2100 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (23°C) | 5.0 | $kJ/m^2$ | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 67 | $kJ/m^2$ | ISO 179/1eU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature | | | |
| 0.45 MPa, not annealed | 119 | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | 63.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 153 | °C | ISO 306/A |
| -- | 95.0 | °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 | | |



## Recommended distributors for this material

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