# AUROblend® PC+PET HI black 9005

Polycarbonate + PET

**Aurora Kunststoffe GmbH**

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## Technical Data

### Product Description

AUROblend® PC+PET HI black ReCompound is a sustainable elastomer-modified injection molding grade for crash relevant applications. Contains sorted post-industrial plastic parts and sprues.

Typical Applications: Automotive Radiator grills, Spoilers

### General

| | | |
|---|---|---|
| Material Status | • Commercial: Active | |
| Availability | • Europe | |
| Additive | • Impact Modifier | |
| Recycled Content | • Post-Industrial (PIR)/Pre-Consumer | |
| Features | • Impact Modified | |
| Uses | • Automotive Exterior Parts | • Automotive Exterior Trim |
| Appearance | • Black | |
| Processing Method | • Injection Molding | |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.20 | g/cm³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 kg) | 20 | cm³/10min | ISO 1133 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 0.80 | % | |
| Flow | 0.80 | % | |
| Water Absorption | | | ISO 62 |
| Saturation, 23°C | 0.75 | % | |
| Equilibrium, 23°C, 50% RH | 0.15 | % | |

| Mechanical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Tensile Modulus | 2050 | MPa | ISO 527-1 |
| Tensile Stress (Yield) | 45.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | > 50 | % | ISO 527-2 |

| Impact | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C | 20 | kJ/m² | |
| 23°C | 45 | kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -30°C | No Break | | |
| 23°C | No Break | | |

| Thermal | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Deflection Temperature Under Load | | | ISO 75-2/A |
| 1.8 MPa, Unannealed | 90.0 | °C | |
| Vicat Softening Temperature | 130 | °C | ISO 306/B50 |
| Melting Temperature [2] | 250 | °C | ISO 11357-3 |

| Flammability | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Flame Rating | HB | | Internal Method |



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| Injection | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Drying Temperature | 110 | °C | |
| Drying Time | 4.0 to 8.0 | hr | |
| Processing (Melt) Temp | 270 | °C | |
| Mold Temperature | 80 | °C | |
| Residual Moisture Content | < 0.01 | % | Karl Fisher |

## Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 10°C/min



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