**Technical Data Sheet**

# SCHULAFORM® 9D DB LE BLACK

Acetal (POM) Copolymer
Engineering Plastics

| Product Description |
|---|
| Easy flow Polyoxymethylene grade with low emissions for automotive applications (dry blend) |

| General | | |
|---|---|---|
| Features | • Good Flow | • Low Emissions |
| Uses | • Automotive Applications | |
| Processing Method | • Injection Molding | |
| Resin ID (ISO 1043) | • POM-C | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.41 g/cm³ | 1.41 g/cm³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 26 cm³/10min | 26 cm³/10min | ISO 1133 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Modulus | 406000 psi | 2800 MPa | ISO 527-2/1A/1 |
| Tensile Stress (Yield) | 9430 psi | 65.0 MPa | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 8.0 % | 8.0 % | ISO 527-2/1A/50 |
| **Impact** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Charpy Notched Impact Strength (73°F (23°C)) | 2.4 ft·lb/in² | 5.0 kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| 73°F (23°C) | No Break | No Break | |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Heat Deflection Temperature | | | |
| 66 psi (0.45 MPa), Unannealed | 293 °F | 145 °C | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 212 °F | 100 °C | ISO 75-2/Af |
| Vicat Softening Temperature | | | |
| -- | 324 °F | 162 °C | ISO 306/A50 |
| -- | 302 °F | 150 °C | ISO 306/B50 |
| **Flammability** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Burning Rate | | | |
| 0.0787 in (2.00 mm) | 2.4 in/min | 60 mm/min | ISO 3795 |
| 0.0787 in (2.00 mm) | 2.4 in/min | 60 mm/min | FMVSS 302 |

| Additional Information | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Emission of Organic Compounds | | | |
| VDA 277, TVOC (total organic compounds) | < 5.00 µgC/g | < 5.00 µgC/g | VDA 277 |
| VDA 278, Fog (condensable compounds) | < 5.00 µgC/g | < 5.00 µgC/g | VDA 278 |
| VDA 278, VOC (volatile organic compounds) | < 0.950 µgC/g | < 0.950 µgC/g | VDA 278 |
| Formaldehyde Emissions | < 5.00 mg/kg | < 5.00 mg/kg | VDA 275 |
| Odor | 3.50 | 3.50 | VDA 270 |

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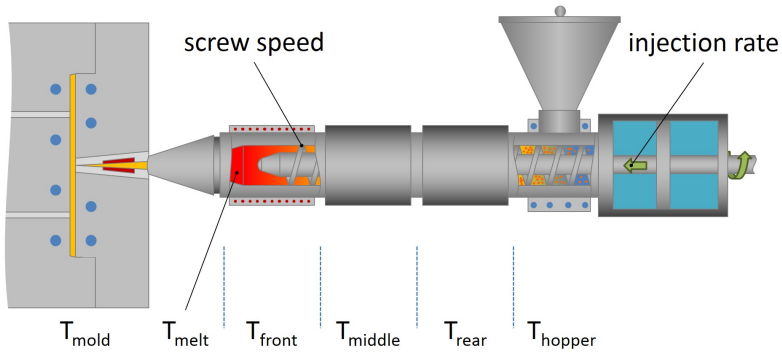


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 212 °F | 100 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Suggested Max Regrind | 20 % | 20 % |
| Processing (Melt) Temp | 392 to 410 °F | 200 to 210 °C |
| Mold Temperature | 140 to 248 °F | 60 to 120 °C |

**Notes**

These are typical property values not to be construed as specification limits.