

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 73°F (23°C)	No Break	No Break	ISO 179/1eU
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.