

UV resistant, Low Emission

POM copolymer

Standard injection molding grade with reduced emissions especially for automotive interior application. With UV Additives, colored

Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness)

Emission according to VDA 275 < 2 mg/kg (natural grades) Emission according to VDA 275 < 5 mg/kg (colored grades)

### Rheological properties

Melt volume-flow rate	8 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

### Typical mechanical properties

Tensile Modulus	2700	MPa	ISO 527-1/-2
Yield stress, 50mm/min	63	MPa	ISO 527-1/-2
Yield strain, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	30	%	ISO 527-1/-2
Flexural Modulus	2600	MPa	ISO 178
Tensile creep modulus, 1h	2400	MPa	ISO 899-1
Tensile creep modulus, 1000h		MPa	ISO 899-1
Charpy impact strength, 23°C	220 <sup>[P]</sup>	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	220	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m²	ISO 179/1eA
[P]: Partial Break			

### Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	104 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	150 °C	ISO 306
Coeff. of linear therm. expansion, parallel	120 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120 E-6/K	ISO 11359-1/-2

### **Electrical properties**

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Relative permittivity, 100Hz	4	IEC 62631-2-1
Relative permittivity, 1MHz	4	IEC 62631-2-1
Dissipation factor, 100Hz	20 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50 E-4	IEC 62631-2-1
Volume resistivity	1E12 Ohm.m	IEC 62631-3-1
Surface resistivity	1E14 Ohm	IEC 62631-3-2
Electric strength	35 kV/mm	IEC 60243-1
Comparative tracking index	PLC 0 PLC	UL 746A

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### Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.65 %	Sim. to ISO 62
Density	1410 kg/m³	ISO 1183

### Injection

Drying Temperature	100 - 120 °C
Drying Time, Dehumidified Dryer	3-4 h
Processing Moisture Content	0.15 %
Screw tangential speed	0.2 - 0.21 m/s
Max. mould temperature	80 - 120 °C
Back pressure	4 MPa
Injection speed	slow-medium

#### Characteristics

Additives Release agent

#### Additional information

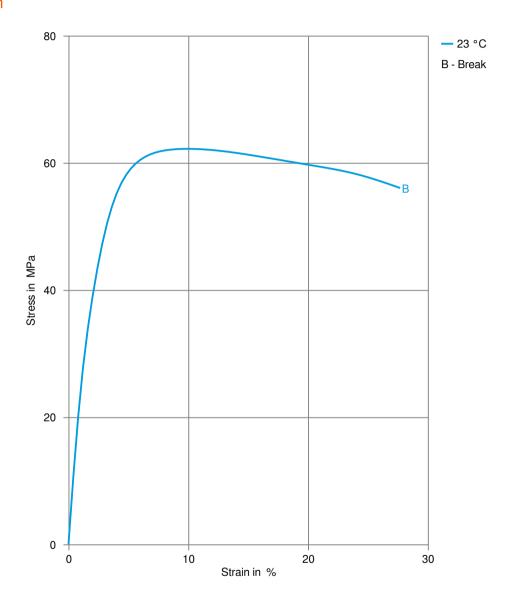
Injection molding Standard injection moulding machines with three phase (15 to 25 D)

plasticating screws will fit.

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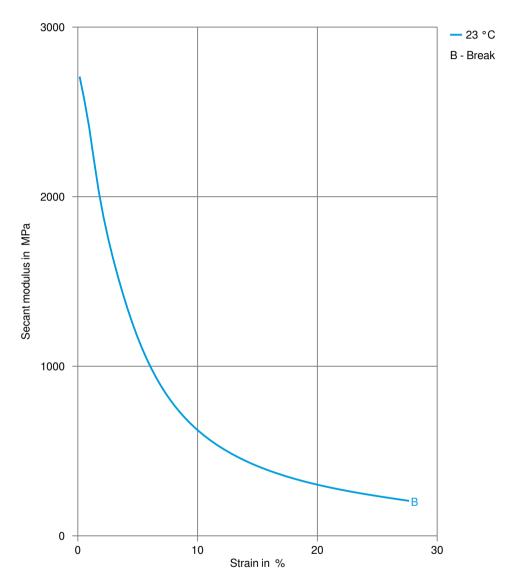
### Stress-strain



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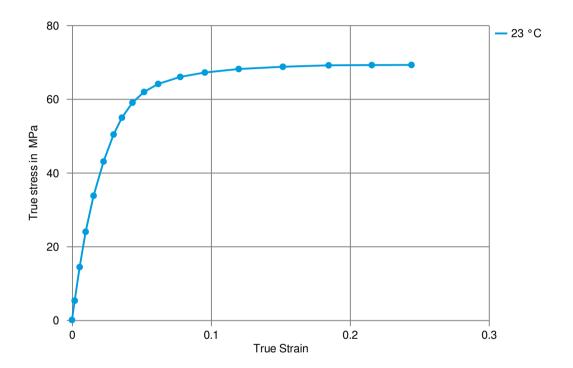
### Secant modulus-strain



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### True stress-strain



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### **Processing Texts**

Pre-drying recommended

Injection molding Standard injection moulding machines with three phase (15 to 25 D)

plasticating screws will fit.

Injection molding Preprocessing

To achive low emission values pre drying using a recirculating air dryer (100 to

120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,1 %

Injection molding Postprocessing Conditioning e.g. moisturizing is not necessary.

#### Other Approvals

Other Approvals

OEM	Specification	Additional Information
Bosch	N28 BN22-O037	Natural
Mercedes-Benz Group (Daimler)	DBL 5404	BQF
Mercedes-Benz Group (Daimler)	DBL 5410	Black
Renault		No spec listed
VW Group	TL 524 76	
VW Group	VW50180	

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Revised: 2023-07-10 Source: Celanese Materials Database

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