

**Produkttext**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 9988- POM-K, M-GNR, 03-002 POM copolymer Standard- Injection molding type with high rigidity, hardness and toughness; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Monomers and additives are listed in EU- Regulation (EU) 10/2011 FDA compliant according to 21 CFR 177.2470 UL-registration for all colours and a thickness more than 1.5 mm as UL 94 HB, temperature index UL 746 B electrical 110 °C, mechanical 90 °C. Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm. Ranges of applications: automotive engineering, precision engineering, electric and electronical industry, domestic appliances. FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA)

Flammability @1.6mm nom. thickn.	HB	UL recognition (1.6)
Flammability at thickness h (3 mm)	HB	UL recognition (h)

Verarbeitungs-/Physikal. Eigenschaften	Wert	Einheit	Prüfnorm
<b>ISO Daten</b>			
<sup>[C]</sup> Schmelzevolumenrate, MVR	<b>8</b>	cm <sup>3</sup> /10min	ISO 1133
Temperatur	<b>190</b>	°C	-
Belastung	<b>2.16</b>	kg	-
<sup>[C]</sup> Verarbeitungsschwindigkeit, parallel	<b>2.0</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Verarbeitungsschwindigkeit, senkrecht	<b>1.9</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Dichte der Schmelze	<b>1200</b>	kg/m <sup>3</sup>	-
<sup>[C]</sup> Wärmeleitfähigkeit der Schmelze	<b>0.155</b>	W/(m K)	-
<sup>[C]</sup> Spez. Wärmekapazität der Schmelze	<b>2210</b>	J/(kg K)	-
<sup>[C]</sup> Effektive Temperaturleitf. a-effektiv	<b>4.85E-8</b>	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection-Temperatur	<b>140</b>	°C	-

[C]: CAMPUS

Mechanische Eigenschaften	Wert	Einheit	Prüfnorm
<b>ISO Daten</b>			
<sup>[C]</sup> Zug-Modul	<b>2850</b>	MPa	ISO 527
<sup>[C]</sup> Streckspannung	<b>64</b>	MPa	ISO 527
<sup>[C]</sup> Streckdehnung	<b>9</b>	%	ISO 527
<sup>[C]</sup> Nominelle Bruchdehnung	<b>30</b>	%	ISO 527
<sup>[C]</sup> Charpy-Schlagzähigkeit, +23°C	<b>220</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy-Schlagzähigkeit, -30°C	<b>220</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy-Kerbschlagzähigkeit, +23°C	<b>6.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy-Kerbschlagzähigkeit, -30°C	<b>6</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermische Eigenschaften	Wert	Einheit	Prüfnorm
<b>ISO Daten</b>			
<sup>[C]</sup> Schmelztemperatur, 10°C/min	<b>166</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Formbeständigkeitstemperatur, 1.80 MPa	<b>104</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Formbeständigkeitstemperatur, 0.45 MPa	<b>160</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat-Erweichungstemperatur, B	<b>150</b>	°C	ISO 306
<sup>[C]</sup> Längenausdehnungskoeffizient, parallel	<b>110</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Längenausdehnungskoeffizient, senkrecht	<b>110</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Brennbarkeit bei nominal 1.5mm	<b>HB</b>	class	IEC 60695-11-10
geprüfte Probekörperdicke	<b>1.5</b>	mm	-
Yellow Card vorhanden	<b>ja</b>	-	-
<sup>[C]</sup> Brennbarkeit bei Dicke h	<b>HB</b>	class	IEC 60695-11-10
geprüfte Probekörperdicke	<b>3.0</b>	mm	-
Yellow Card vorhanden	<b>ja</b>	-	-

[C]: CAMPUS

Elektrische Eigenschaften	Wert	Einheit	Prüfnorm
<b>ISO Daten</b>			
<sup>[C]</sup> Dielektrizitätszahl, 100Hz	<b>4</b>	-	IEC 62631-2-1
<sup>[C]</sup> Dielektrizitätszahl, 1MHz	<b>4</b>	-	IEC 62631-2-1
<sup>[C]</sup> Dielektr. Verlustfaktor, 100Hz	<b>20</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Dielektr. Verlustfaktor, 1MHz	<b>50</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Spezifischer Durchgangswiderstand	<b>1E12</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Spezifischer Oberflächenwiderstand	<b>1E14</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Elektrische Durchschlagfestigkeit	<b>35</b>	kV/mm	IEC 60243-1
<sup>[C]</sup> Vergleichszahl der Kriechwegbildung	<b>600</b>	-	IEC 60112

[C]: CAMPUS

Andere Eigenschaften	Wert	Einheit	Prüfnorm
<sup>[C]</sup> Wasseraufnahme	<b>0.65</b>	%	Ähnlich ISO 62
<sup>[C]</sup> Feuchtigkeitsaufnahme	<b>0.2</b>	%	Ähnlich ISO 62
<sup>[C]</sup> Dichte	<b>1410</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Merkmale**

**Verarbeitungsmethoden**

Spritzgießen, Folienextrusion, Profilextrusion, Plattenextrusion, übrige Extrusion, Blasformen

**Lieferformen**

Granulat

**Additive**

Entformungshilfsmittel

**Merkmale**

Thermische Beständigkeit, Copolymer

**Chemikalienbeständigkeit**

Alkalibeständigkeit, Lösemittelbeständigkeit, Hydrolytisch stabil, Oxidationsbeständigkeit

**Zertifikate**

Lebensmittelkontakt, Lebensmittelzulassung 10/2011, Lebensmittelzulassung FDA 21 CFR

**Anwendungen**

Automobil, Elektrotechnik und Elektrik

**Regionale Verfügbarkeit**

Nordamerika, Europa, Asien/Pazifik, Süd und Zentral-Amerika, Nahost/Afrika

**Weitere Informationen**

**Spritzgießen**

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Melt temperature 190-210 °C

Mould temperature 80-120 °C

Conditioning e.g. moisturizing is not necessary.

**Folienextrusion**

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %  
Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C  
Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C  
Annealing time 10 min/mm thickness

### Übrige Extrusion

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C  
Annealing time 10 min/mm thickness

### Plattenextrusion

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C

Annealing time 10 min/mm thickness