

HOSTAFORM[®] C 9021 10/1570

General purpose injection molding grade; UV-stabilized with carbon black

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GCL, 03-002 POM copolymer Standard Injection molding type, UV-stabilized with carbon black; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. UL-registration for 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 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: exterior applications. UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

Product information

Part Marking Code	POM		ISO 11469
Rheological properties			
Melt volume-flow rate	8	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.0	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	3000	MPa	ISO 527-1/-2
Yield stress, 50mm/min	64	MPa	ISO 527-1/-2
Yield strain, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	25	%	ISO 527-1/-2
Tensile creep modulus, 1h	2500	MPa	ISO 899-1
Tensile creep modulus, 1000h	1400	MPa	ISO 899-1
Charpy impact strength, 23°C	110	kJ/m²	ISO 179/1eU
Charpy impact strength, -30 °C	110	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30 °C	6	kJ/m²	ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min	167	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	105		ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	150	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Flammability			
Burning Behav. at 1.5mm nom. thickn.	HB	class	UL 94
Thickness tested		mm	UL 94
Burning Behav. at thickness h		class	UL 94
Thickness tested	3.00		UL 94
UL recognition	yes		UL 94
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Electrical properties			
Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	28	kV/mm	IEC 60243-1
Comparative tracking index	PLC 2	PLC	UL 746A
Other properties			
Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.65	%	Sim. to ISO 62
Density	1420	kg/m ³	ISO 1183
Injection			
Drying Temperature	100 - 120	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Characteristics			
Additives	Release agent		

Additional information

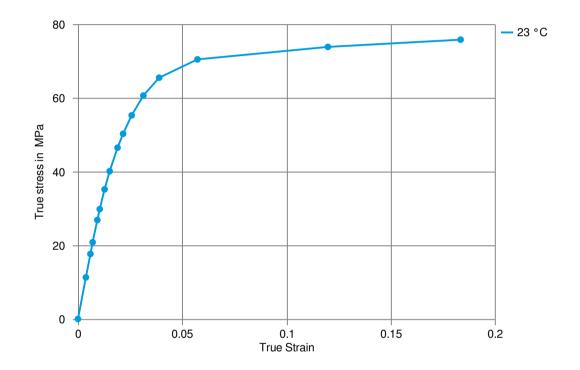
Injection molding

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



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True stress-strain





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Processing Texts			
Injection molding	Standard injection moulding machines w plasticating screws will fit.	ith three phase (15 to 25 D)	
Injection molding Preprocessing	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 %		
Injection molding Postprocessing	Conditioning e.g. moisturizing is not necessary.		
Other Approvals			
Other Approvals	OEM	Specification	
	Stellantis - PSA Group	01994_14_00056	

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