

HOSTAFORM[®] C 9021 LS 10/1570

General purpose injection molding grade; UV-stabilized with UV stabilizers and 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 UV-stabilizers and carbon black; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: exterior applications. FMVSS = Federal Motor Vehicle Safety Standard (USA)

Product information			
Part Marking Code	POM		ISO 11469
Rheological properties			
0 1 1			
Melt volume-flow rate	-	cm ³ /10min	ISO 1133
Temperature	190		
Load Moulding shrinkage, parallel	2.16 2.0	-	ISO 294-4, 2577
Moulding shrinkage, normal	2.0		ISO 294-4, 2577 ISO 294-4, 2577
Woulding Shirinage, Horman	1.0	78	100 204 4, 2011
Typical mechanical properties			
Tensile Modulus	2850	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		MPa	ISO 899-1
Tensile creep modulus, 1000h		MPa	ISO 899-1
Charpy impact strength, 23°C		kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C		kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m ²	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	°C	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
Electrical properties			
Volume resistivity	1F12	Ohm.m	IEC 62631-3-1
Surface resistivity		Ohm	IEC 62631-3-2
Electric strength		kV/mm	IEC 60243-1
Comparative tracking index	PLC 2		UL 746A



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Other properties Humidity absorption, 2mm Water absorption, 2mm Density	0.2 % 0.65 % 1420 kg/m³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183	
Injection Drying Temperature Drying Time, Dehumidified Dryer	100 - 120 °C 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.		
Processing Texts			
Injection molding	Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.		
Injection molding Preprocessing	General drying is not necessary due to low moisture absorptio the resin.	n of	
	In case of bad storage conditions (water contact or condensed the use of a recirculating air dryer (100 to 120 $^{\circ}$ C / max. 40 m layer / 3 to 6 hours) is recommended.		
	Max. Water content 0,2 %		
Injection molding Postprocessing	Conditioning e.g. moisturizing is not necessary.		

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