

HOSTAFORM® C 9021 AW XAP®2 LS

Low noise, low wear and low emissions

POM copolymer Injection molding type like Hostaform® C 9021, with special additive modified; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation; good wear properties and low coefficient of friction. Reduced emission grade. Emissions according to VDA 275 < 5 mg/kg Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: sliding parts for window lifter. FMVSS = Federal Motor Vehicle Safety Standard (USA) Preliminary Data Sheet

Rheological properties

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Melt volume-flow rate	8	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.6	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	2450	MPa	ISO 527-1/-2
Yield stress, 50mm/min	57	MPa	ISO 527-1/-2
Yield strain, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	20	%	ISO 527-1/-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Strength	78	MPa	ISO 178
Flexural Stress at 3.5%	61	MPa	ISO 178
Charpy impact strength, 23°C	130	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	110	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5	kJ/m²	ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	88	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	151	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	145	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Electrical properties			
Relative permittivity, 100Hz	3.8		IEC 62631-2-1
Relative permittivity, 1MHz	3.8		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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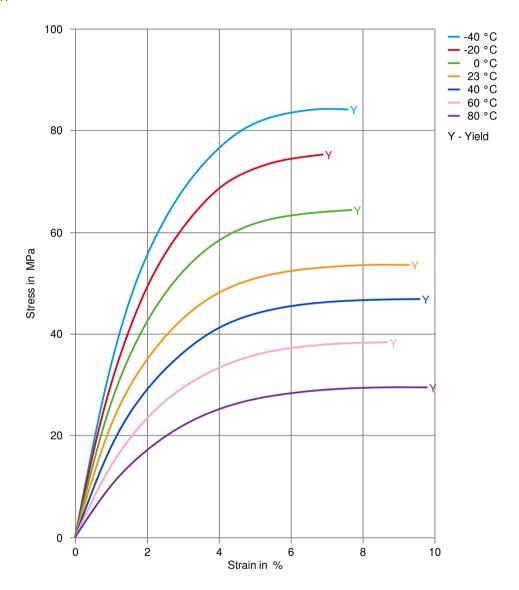


Other properties

Humidity absorption, 2mm Water absorption, 2mm Density	0.2 % 0.65 % 1380 kg/m³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Injection		
Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Screw tangential speed Max. mould temperature Back pressure Injection speed	100 - 120 °C 3 - 4 h 0.15 % 0.2 - 0.21 m/s 80 - 120 °C 2 MPa slow	
Characteristics		
Additives	Release agent	
Additional information Injection molding	Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.	

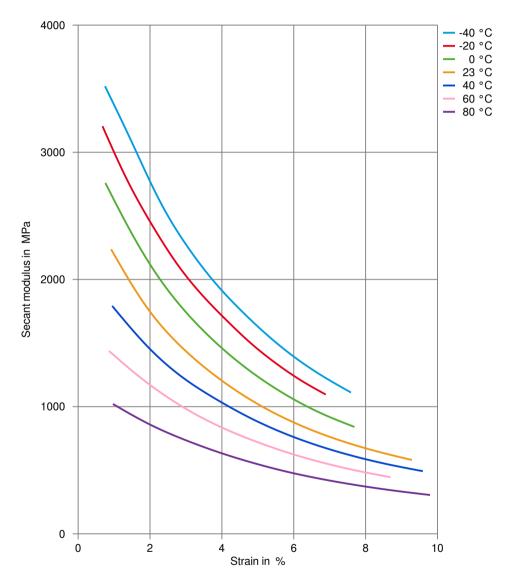


Stress-strain



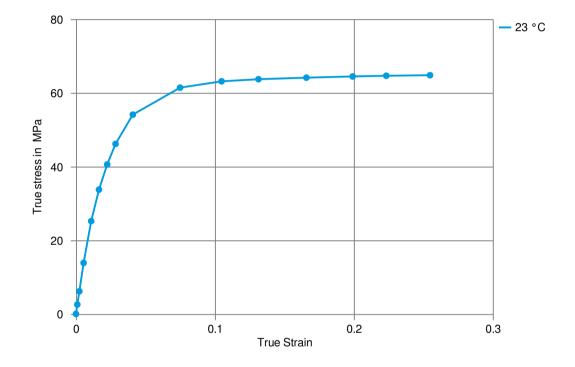


Secant modulus-strain





True stress-strain





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Processing Texts				
	Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.			
Longer pre-drying times/storage	The product can then be stored in standard conditions until processed.			
, ,	Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.			
	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	

OEM	Specification	Additional Information
Continental	TST N 055 54.37	(TST N 055 54.37-001)
Mercedes-Benz Group (Daimler)	DBL 5404	BQF

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