

**HOSTAFORM C 9021 - TICONA GmbH - POM**

<b>Rheological properties [HOSTAFORM C 9021]</b>		
Melt volume-flow rate	8	cm <sup>3</sup> /10min
Temperature	190	°C
Load	2.16	kg
Molding shrinkage (parallel)	*	%
Molding shrinkage (normal)	*	%
<b>Mechanical properties 23°C/50%r.h. [HOSTAFORM C 9021]</b>		
Tensile Modulus (1mm/min)	2850	MPa
Yield stress (50mm/min)	64	MPa
Yield strain (50mm/min)	9	%
Nominal strain at break (50mm/min)	30	%
Stress at 50% strain (50mm/min)	*	MPa
Stress at break (5mm/min)	*	MPa
Strain at break (5mm/min)	*	%
Tensile creep modulus (1h)	2500	MPa
Tensile creep modulus (1000h)	1300	MPa
Charpy impact strength (+23°C)	180P	kJ/m <sup>2</sup>
Charpy impact strength (-30°C)	160	kJ/m <sup>2</sup>
Charpy notched impact strength (+23°C)	6.5	kJ/m <sup>2</sup>
Charpy notched impact strength (-30°C)	6	kJ/m <sup>2</sup>
Tensile notched impact strength (+23°C)	*	kJ/m <sup>2</sup>
Puncture - Maximum force (+23°C)	-	N
Puncture - Maximum force (-30°C)	-	N
Puncture energy (+23°C)	-	J
Puncture energy (-30°C)	-	J
<b>Thermal properties [HOSTAFORM C 9021]</b>		
Melting temperature (10°C/min)	166	°C
Glass transition temperature (10°C/min)	*	°C
Temp. of deflection under load (1.8 MPa)	104	°C

Temp. of deflection under load (0.45 MPa)	-	°C
Temp. of deflection under load (8.00 MPa)	*	°C
Vicat softening temperature (50°C/h 50N)	150	°C
Coeff.of linear therm. expansion (parallel)	1.1	E-4°C
Coeff.of linear therm. expansion (normal)	1.1	E-4°C
Flammability at 1.6mm nom. thickn.	HB	class
Thickness tested	1.5	mm
UL recognition	UL	-
Flammability at thickness h	HB	class
Thickness tested	3	mm
UL recognition	UL	-
Flammability 5V at thickness h	*	class
Thickness tested	*	mm
UL recognition	-	-
Oxygen index	*	%
<b>Electrical properties 23°C/50%r.h. [HOSTAFORM C 9021]</b>		
Relative permittivity (100Hz)	4	-
Relative permittivity (1 MHz)	4	-
Dissipation factor (100Hz)	20	E-4
Dissipation factor (1 MHz)	50	E-4
Volume resistivity	1E12	Ohm*m
Surface resistivity	1E14	Ohm
Electric strength	35	kV/mm
Comparative tracking index	600	-
<b>Other properties [HOSTAFORM C 9021]</b>		
Water absorption	0.65	%
Humidity absorption	0.2	%
Density	1410	kg/m <sup>3</sup>

<b>Material specific properties [HOSTAFORM C 9021]</b>		
Viscosity number	*	cm <sup>3</sup> /g
Indicative density (PE only)	*	kg/m <sup>3</sup>
<b>Test specimen production [HOSTAFORM C 9021]</b>		
Processing conditions acc. ISO		-
Injection Molding, melt temperature		°C
mold temperature		°C
injection velocity		mm/s
pressure at hold		MPa
Compression Molding, molding temperature		°C
cooling rate		K/min
molding time		min
demolding temperature		°C
<b>Rheological calculation properties [HOSTAFORM C 9021]</b>		
Density of melt	1200	kg/m <sup>3</sup>
Thermal conductivity of melt	0.155	W/(m K)
Spec. heat capacity of melt	2210	J/(kg K)
Eff. thermal diffusivity	4.85E-008	m <sup>2</sup> /s
Freeze temperature	165	°C
<b>Processing and delivery form [HOSTAFORM C 9021]</b>		
Injection Molding		
Film Extrusion		
Profile Extrusion		
Sheet Extrusion		
Other Extrusion		
Coating		
Blow Molding		
Calendering		
Transfer Molding		

Casting	
Thermoforming	
Pellets	
Granules	
Powder	
<b>Additives [HOSTAFORM C 9021]</b>	
Blowing agent	
Lubricants	
Antiblocking agent	
Release agent	
Metal deactivator	
Flame retarding agent	
Plasticizer	
With fillers	
Without fillers	
<b>Special Characteristics [HOSTAFORM C 9021]</b>	
Transparent	
Increased electrical conductivity	
Anti-static	
Flame retardant	
Platable	
High impact or impact modified	
Light stabilised or stable to light	
U.V. stabilised or stable to weather	
Heat stabilised or stable to heat	