

# Celanese HOSTAFORM<sup>®</sup> C 9021

HOSTAFORM<sup>®</sup> C 9021 is a POM copolymer polymer with HB flammability rating, unfilled and boasting features like high hardness, stiffness, toughness, and resistance to alkali, oxidation, chemicals, fuel, and solvents. It's widely used in automotive, E & E, precision engineering, and home appliances applications.

Physical property		Standard	Value	Unit
Density		ISO 1183	1410	kg/m <sup>3</sup>
Shrinkage	Flow	ISO 294	2	%
Shrinkage	xFlow	ISO 294	1.9	%
Water Absorption	23°C Saturation	ISO 62	0.65	%
Humidity Absorption	23°C 50RH	ISO 62	0.2	%
Melt Index	190°C 2.16kg	ISO 1133	8	cm <sup>3</sup> /10min
Melt Density		INTERNAL METHOD	1200	kg/m <sup>3</sup>
Hardness		Standard	Value	Unit
Ball Indentation Hardness	30s	ISO 2039	144	MPa
Mechanical behavior		Standard	Value	Unit
Tensile Modulus		ISO 527	2850	MPa
Tensile Strength	Yield 50mm/min	ISO 527	64	MPa
Elongation	Yield 50mm/min	ISO 527	9	%
Elongation	Break 50mm/min	ISO 527	30	%
Tensile Creep Modulus	1hr	ISO 899	2500	MPa
Tensile Creep Modulus	1000hr	ISO 899	1300	MPa
Flexural Strength	3.5%Strain	ISO 178	72	MPa
Flexural Modulus	23°C	ISO 178	2700	MPa
Charpy Notch Impact	23°C 1eA	ISO 179	6.5	kJ/m <sup>2</sup>
Charpy Notch Impact	-30°C 1eA	ISO 179	6	kJ/m <sup>2</sup>
Charpy Un-notch Impact	23°C Partial break	ISO 179	220	kJ/m <sup>2</sup>
Charpy Un-notch Impact	-30°C	ISO 179	220	kJ/m <sup>2</sup>
Compressive Strength	1%Strain	ISO 604	24	MPa
Compressive Strength	6%Strain	ISO 604	86	MPa
Thermal		Standard	Value	Unit
HDT	1.8MPa	ISO 75	104	°C
HDT	0.45MPa	ISO 75	160	°C
Vicat Softening Temperature	50°C/hr 50N	ISO 306	150	°C
Melting Temperature	10°C/min	ISO 11357	166	°C
CLE	Flow	ISO 11359	1.10E-04	cm/cm/°C
CLE	xFlow	ISO 11359	1.10E-04	cm/cm/°C
Heat Conductivity Coefficient	Melt	INTERNAL METHOD	0.155	W/(m·K)
Specific Heat	Melt	INTERNAL METHOD	2210	J/(kg·K)
Thermal Diffusivity		INTERNAL METHOD	4.85E-08	m <sup>2</sup> /s