HOSTAFORM® C 2521 LS

POM Celanese

Product Texts

POM copolymer Stiff-flowing type for injection molding and extrusion with high impact toughness and good tracking resistance over a high range of temperature; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. This grade has been specially stabilized to prevent discoloration and deterioration of mechanical properties from ultraviolet light exposure. The material is available in natural, black and colored. Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm. Ranges of applications: injection molding thick-walled, void-free molded parts; extrusion e.g. for boards and pipes. FMVSS = Federal Motor Vehicle Safety Standard (USA)

Flammability @1.6mm nom. thickn.	HB	-
Flammability at thickness h (3 mm)	HB	UL recognition (h)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**2.5**	cm³/10min	ISO 1133
Temperature	**190**	°C	-
Load	**2.16**	kg	-
[C] Molding shrinkage, parallel	**2.1**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.8**	%	ISO 294-4, 2577
[C] Density of melt	**1200**	kg/m³	-
[C] Thermal conductivity of melt	**0.155**	W/(m K)	-
[C] Spec. heat capacity of melt	**2210**	J/(kg K)	-
[C] Ejection temperature	**140**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2600**	MPa	ISO 527
[C] Yield stress	**62**	MPa	ISO 527
[C] Yield strain	**9**	%	ISO 527
[C] Nominal strain at break	**32**	%	ISO 527
[C] Charpy impact strength, +23°C	**250**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**250**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**8.5**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**7**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**165**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**101**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**110**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**4**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**4**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**15**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**50**	E-4	IEC 62631-2-1
[C] Volume resistivity	**1E12**	Ohm*m	IEC 62631-3-1

[C] Surface resistivity	**1E14**	Ohm	IEC 62631-3-2
[C] Electric strength	**35**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.65**	%	Sim. to ISO 62
[C] Humidity absorption	**0.2**	%	Sim. to ISO 62
[C] Density	**1410**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**100 - 120**	°C	-
Pre-drying - Time	**3 - 6**	h	-
Processing humidity	**≤0.2**	%	-
Melt temperature	**190 - 210**	°C	-
Mold temperature	**80 - 120**	°C	-

Characteristics

Processing
Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion, Blow Molding

Delivery form
Pellets

Additives
Release agent

Special Characteristics
U.V. stabilized or stable to weather

Features
Thermal Stability, Copolymer

Chemical Resistance
Alkali Resistance, Solvent Resistance, Hydrolytically Stable, Oxidation Resistance

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

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

Conditioning e.g. moisturizing is not necessary.