WELLAMID 6000/51 GV 30 HWCP

PA6-GF30 CP-Polymer-Technik GmbH & Co.KG

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.8 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**8500 / 5500**	MPa	ISO 527
Tensile Strength	**150 / 90**	MPa	ISO 527
Strain at break	**4 / 7**	%	ISO 527
Flexural modulus, 23°C	**7200 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**95 / 100**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**22 / 35**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**223 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**180 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**220 / ***	°C	ISO 75-1/-2
Vicat softening temperature, B	**200 / ***	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**20 / ***	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**3.0 / ***	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**4 / 7**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**220 / 2000**	E-4	IEC 62631-2-1
Volume resistivity	**1E13 / 1E10**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1E10**	Ohm	IEC 62631-3-2
Electric strength	**40 / 35**	kV/mm	IEC 60243-1
Comparative tracking index	**550 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Humidity absorption	**2 / ***	%	Sim. to ISO 62
Density	**1310 / -**	kg/m³	ISO 1183

Characteristics

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Regional Availability

Europe