

Product Texts

Zytel® 7301 NC010 is an Unreinforced Polyamide 6

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2900 / 1500	MPa	ISO 527
^[C] Yield stress	80 / -	MPa	ISO 527
^[C] Yield strain	4.5 / -	%	ISO 527
^[C] Nominal strain at break	25 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6 / -	kJ/m ²	ISO 179/1eA
^[C] Abrasion resistance	4.5 / *	mm ³	ISO 4649

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	221 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	60 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	160 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	70 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 1MHz	3.5 / 7	-	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
^[C] Comparative tracking index	600 / 600	-	IEC 60112

[C]: CAMPUS

Optical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Gloss, 60°	90 / *	-	ISO 2813
^[C] Haze	0.02 / *	-	ISO 14782

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	9.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	3 / *	%	Sim. to ISO 62
^[C] Density	1130 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Film Properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Stress at yield, parallel	32 / *	MPa	ISO 527-3
^[C] Stress at yield, normal	31 / *	MPa	ISO 527-3
^[C] Strain at yield, parallel	18 / *	%	ISO 527-3
^[C] Strain at yield, normal	18 / *	%	ISO 527-3
^[C] Maximum stress, parallel	90 / *	MPa	ISO 527-3
^[C] Maximum stress, normal	80 / *	MPa	ISO 527-3
^[C] Maximum strain, parallel	350 / *	%	ISO 527-3
^[C] Maximum strain, normal	400 / *	%	ISO 527-3
^[C] WVTR, 23°C/85%r.h.	15 / *	g/(m ² *d)	ISO 15106-1/-2
^[C] Oxygen transmission rate, 23°C/0%r.h.	12 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
^[C] Carbon Dioxide transm. rate, 23°C/0%r.h.	45 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2

Zytel® 7301 NC010

PA6

Celanese

[C] Thickness of specimen	0.1 / *	mm	-
[C]: CAMPUS			

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Viscosity number	150 / *	cm ³ /g	ISO 307, 1157, 1628
[C]: CAMPUS			

Characteristics**Processing**

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion, Coating

Regional Availability

Asia Pacific

Delivery form

Pellets, Natural Color