Multilon® TN-7000

(PC+ABS) Teijin Chemicals Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2600**	MPa	ISO 527
Yield stress	**63**	MPa	ISO 527
Yield strain	**3**	%	ISO 527
Stress at break	**48**	MPa	ISO 527
Strain at break	**80**	%	ISO 527
Flexural modulus, 23°C	**2600**	MPa	ISO 178
Flexural strength	**95**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**15**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**84**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**94**	°C	ISO 75-1/-2
Vicat softening temperature, B	**97**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**80**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**80**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Burning behav. at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**0.7**	mm	-
Burning behav. 5V at thickness h	**5VB**	class	IEC 60695-11-20
Thickness tested	**2.0**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Surface resistivity	**1E16**	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	**1180**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**5 - 8**	h	-
Melt temperature	**230 - 270**	°C	-
Mold temperature	**50 - 70**	°C	-

Characteristics

Processing
Injection Molding

Applications
IT / Business Machine

Special Characteristics
Flame retardant, Halogen-free

Regional Availability
North America, Europe, Asia Pacific