

Multilon® TN-7504

Polycarbonate + ABS

TEIJIN LIMITED

Message:

PC/ABS polymer alloy, Non-halogen type flame resistant series

General Information			
UL YellowCard	E98529-101132780		
Additive	Flame retardancy		
Features	Halogen-free		
	Bromine-free		
	Flame retardancy		
Uses	Electrical housing		
	Business equipment		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Transverse flow: 4.00mm	0.50 - 0.70	%	Internal method
Flow: 4.00mm	0.50 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	62.0	MPa	ISO 527-2/50
Fracture	42.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.0	%	ISO 527-2/50
Fracture	50	%	ISO 527-2/50
Flexural Modulus ¹	2900	MPa	ISO 178
Flexural Stress ²	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	91.0	°C	ISO 75-2/B

1.8 MPa, not annealed	80.0	°C	ISO 75-2/A
Vicat Softening Temperature	94.0	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2
Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Lateral	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	V-0		UL 94
2.0 mm	5VB		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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