

Multilon® RN-7740M

Polycarbonate + ABS

TEIJIN LIMITED

Message:

PC/ABS polymer alloy, Mineral/Glass fiber reinforced, Non-halogen type flame resistant series

General Information			
UL YellowCard	E98529-100627542		
Filler / Reinforcement	Glass \Mineral		
Additive	Flame retardancy		
Features	Rigidity, high		
	Halogen-free		
	Bromine-free		
	Flame retardancy		
Uses	Industrial application		
	Business equipment		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Transverse flow: 4.00mm	0.20 - 0.40	%	Internal method
Flow: 4.00mm	0.15 - 0.25	%	Internal method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2/1
Tensile Stress (Break)	90.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.0	%	ISO 527-2/5
Flexural Modulus ¹	11000	MPa	ISO 178
Flexural Stress ²	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	18	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	120	°C	ISO 75-2/B
1.8 MPa, not annealed	108	°C	ISO 75-2/A
Vicat Softening Temperature	122	°C	ISO 306/B50

Linear thermal expansion coefficient			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	ISO 11359-2
Lateral	3.2E-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 (2.0 mm, Black)	V-1		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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