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Multilon® RN-7740M

TEIJIN LIMITED - Polycarbonate + ABS

General Information

Product Description			
PC/ABS polymer alloy, Mineral/Glass fiber reinforced, Non-halogen type flame resistant series			
General			
Filler / Reinforcement	• Glass Fiber\Mineral		
Properties	• Flame Retardant	• Halogen Free	• High Rigidity
Uses	• Business Equipment	• Industrial Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.20 to 0.40	%	
Flow : 4.00 mm	0.15 to 0.25	%	
Water Absorption (24 hr, 23°C)	0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	11000	MPa	ISO 527-1/1
Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2/5
Flexural Modulus [2] (23°C)	11000	MPa	ISO 178
Flexural Stress [2] (23°C)	140	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	18	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	120	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	108	°C	
Vicat Softening Temperature	122	°C	ISO 306/B50
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	3.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (2.0 mm)	60.0	°C	UL 746B
RTI Imp (2.0 mm)	60.0	°C	UL 746B
RTI Str (2.0 mm)	60.0	°C	UL 746B
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

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	5.0 to 8.0	hr
Processing (Melt) Temp	240 to 280	°C
Mold Temperature	50 to 80	°C

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 mm/min