

Multilon® RN-7740H

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/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.20 to 0.40	%	
Flow : 4.00 mm	0.10 to 0.30	%	
Water Absorption (24 hr, 23°C)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
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)	10300	MPa	ISO 178
Flexural Stress ² (23°C)	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	119	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	3.2E-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

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	5.0 to 8.0	hr

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Injection	Nominal Value	Unit
Processing (Melt) Temp	260 to 300	°C
Mold Temperature	50 to 80	°C

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 2.0 mm/min