



## LUMAX HR5107

Injection Molding, PBT+ABS+GF10%

Description	Application
Heat Resistance	IT/OA, E&E

Properties	Test Condition	Test Method	Unit	Typical Value
hysical				
Specific Gravity		ASTM D792	-	1.25
Molding Shrinkage		ASTM D955	%	0.4 ~ 0.9
Melt Flow Rate	260℃/2.16kg	ASTM D1238	g/10min	8
Water Absorption	<b>23℃, 24hrs</b>	ASTM D570	%	0.08
lechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Break	5mm/min		kg/cm <sup>2</sup>	610
Tensile Elongation, 3.2mm		ASTM D638	Ng/ Off	
@ Yield	5mm/min		%	
@ Break	5mm/min		%	3.0
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>	940
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>	32,000
IZOD Impact Strength, 6.4mm		ASTM D256		
	<b>00</b> %			6.0
(Notched)	<b>23</b> ℃		kg·cm/cm	6.0
(Notched) hermal Melt Temperature	23 C	ASTM D3418	kg·cm/cm ℃	223
hermal	23 C	ASTM D3418 ASTM D648	-	
hermal Melt Temperature	23 C		°C	
hermal Melt Temperature Heat Deflection Temperature, 6.4mm			-	223
hermal Melt Temperature Heat Deflection Temperature, 6.4mm	18.6kg		° °	223
hermal Melt Temperature Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	° °	223
hermal Melt Temperature Heat Deflection Temperature, 6.4mm (Unannealed) Flammability	18.6kg	ASTM D648	ث ث ث	223 107 -
<b>hermal</b> Melt Temperature Heat Deflection Temperature, 6.4mm (Unannealed) Flammability 1.5mm	18.6kg	ASTM D648	°C °C °C class	223 107 - HB
<b>Thermal</b> Melt Temperature Heat Deflection Temperature, 6.4mm (Unannealed) Flammability 1.5mm 3.0mm	18.6kg	ASTM D648 UL94	°C °C °C class	223 107 - HB
Mermal   Melt Temperature   Heat Deflection Temperature, 6.4mm   (Unannealed)   Flammability   1.5mm   3.0mm   Relative Temperature Index   Electrical	18.6kg	ASTM D648 UL94	ິ ເ ເ c class class class	223 107 - HB HB
Mermal   Melt Temperature   Heat Deflection Temperature, 6.4mm   (Unannealed)   Flammability   1.5mm   3.0mm   Relative Temperature Index	18.6kg	ASTM D648 UL94	ື ເ ເ class class class	223 107 - HB HB 50
'hermal   Melt Temperature   Heat Deflection Temperature, 6.4mm   (Unannealed)   Flammability   1.5mm   3.0mm   Relative Temperature Index   Electrical   Mechanical with Impact   Mechanical without Impact	18.6kg	ASTM D648 UL94	ົC ົC Class class class ົ ິ ເ	223 107 - HB HB 50 50 50 50
'hermal   Melt Temperature   Heat Deflection Temperature, 6.4mm   (Unannealed)   Flammability   1.5mm   3.0mm   Relative Temperature Index   Electrical   Mechanical with Impact   Mechanical without Impact	18.6kg	ASTM D648 UL94	ົ ເ ເ class class class	223 107 - HB HB 50 50
'hermal   Melt Temperature   Heat Deflection Temperature, 6.4mm   (Unannealed)   Flammability   1.5mm   3.0mm   Relative Temperature Index   Electrical   Mechanical with Impact   Mechanical without Impact	18.6kg 4.6kg	ASTM D648 UL94 UL 746B	ົC ີC Class class class ົ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ	223 107 - HB HB 50 50 50 50
Mermal   Melt Temperature   Heat Deflection Temperature, 6.4mm   (Unannealed)   Flammability   1.5mm   3.0mm   Relative Temperature Index   Electrical   Mechanical with Impact   Mechanical without Impact   Iectrical   Comparative Tracking Index(CTI)	18.6kg 4.6kg Solution A	ASTM D648 UL94 UL 746B UL 746	ົ ເ c class class ເ c c c c c c	223 107 - HB HB 50 50 50 50

Note) All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

Updated : 1-Jul-14

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## LUMAX HR5107

Injection Molding, PBT+ABS+GF10%

## Description

Heat Resistance

Application

IT/OA, E&E

**Processing Guide (Injection Molding)** 

Processi	ng Parameters	Unit	Value
Drying Temperature		Ĵ	100
Drying Time		hrs	4 ~ 5
Maximum Moisture Content		%	0.02
Melt Temperature		Ĵ	245 ~ 255
Cylinder Temperature	Rear	C	225 ~ 235
	Middle	C	230 ~ 245
	Front	C	245 ~ 255
Nozzle Temperature		Ĵ	245 ~ 255
Mold Temperature		Ĵ	40 ~ 80
Back Pressure		kg/cm <sup>2</sup>	-
Screw Speed		rpm	-

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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