

# LG ABS HF380 (High Flow)



## Application

Electric and Electronic, Automotive Goods, Miscellaneous

## Feature

LG High Flow ABS HF380 provides high melt flow index as well as impact strength. It provides well balanced mechanical properties and processing abilities.

Properties	Test Method	Test Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792		–	1.04
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200°C/ 5kg	g/10min	4
	–	220°C/ 10kg	g/10min	43
	ASTM D1238(I)	230°C/ 3.8kg	g/10min	15
<b>Mechanical</b>				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm <sup>2</sup>	450
Tensile Modulus	ASTM D638	1mm/min	kg/cm <sup>2</sup>	21,900
Elongation at yield	ASTM D638	50mm/min	%	Min. 5
Elongation at break	ASTM D638	50mm/min	%	Min. 10
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm <sup>2</sup>	720
Flexural Modules	ASTM D790	15mm/min	kg/cm <sup>2</sup>	24,500
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23°C	kg·cm/cm	25
		1/4" , '-30°C	kg·cm/cm	12
		1/8" , '23°C	kg·cm/cm	27
		1/8" , '-30°C	kg·cm/cm	12
Rockwell Hardness	ASTM D785	R-Scale	–	106
<b>Thermal</b>				
Heat Deflection Temp	ASTM D648	18.5kg/cm <sup>2</sup> , 1/4" (unannealed)	°C	86
		4.6kg/cm <sup>2</sup> , 1/4" (unannealed)	°C	89
Vicat Softening Temp	ASTM D1525	5kg, 50°C/h	°C	94
Flammability	UL94	1/8"	class	HB
		1/10"	class	HB
		1/16"	class	HB
Relative Temp Index	UL 746B	Elec	°C	60
		Mech w/impact	°C	60
		Mech w/o impact	°C	60
<b>Recommended Processing Condition</b>				
Injection molding–Melt temperature			°C	200~230
Injection molding–Mold temperature			°C	40~80
Injection molding–Pre-drying Temperature			°C	70~80
Injection molding–Pre-drying Time			hrs	2~3

\* These property values are typical representative for natural color and are not intended for specification purpose.

When pigments are loaded, there might be slight change in the properties.

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