LG ABS HF380 (High Flow)

Application

Eletric and Electronic, Automotive Goods, Micellaneous

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
Physical				
Specific Gravity	ASTM D792		-	1.04
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200℃/ 5kg	g/10min	4
	-	220℃/ 10kg	g/10min	43
	ASTM D1238(I)	230℃/ 3.8kg	g/10min	15
Mechanical				
Tensile Strength at yield	ASTM D638	50㎜/min	kg/㎠	450
Tensile Modulus	ASTM D638	1㎜/min	kg/㎠	21,900
Elongation at yield	ASTM D638	50㎜/min	%	Min. 5
Elongation at break	ASTM D638	50㎜/min	%	Min. 10
Flexural Strength at yield	ASTM D790	15㎜/min	kg/㎠	720
Flexural Modules	ASTM D790	15㎜/min	kg/㎠	24,500
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23℃	kg·cm/cm	25
		1/4" , '-30℃	kg·cm/cm	12
		1/8" , '23℃	kg·cm/cm	27
		1/8" , '-30℃	kg·cm/cm	12
Rockwell Hardness	ASTM D785	R-Scale	-	106
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/㎠, 1/4" (unannealed)	℃	86
		4.6kg/㎠, 1/4" (unannealed)	℃	89
Vicat Softening Temp	ASTM D1525	5kg, 50℃/h	℃	94
Flammability	UL94	1/8"	class	HB
		1/10"	class	HB
		1/16"	class	HB
Relative Temp Index	UL 746B	Elec	℃	60
		Mech w/impact	℃	60
		Mech w/o impact	℃	60
Recommeded Processing Condition				
Injection molding-Melt temperatrue			℃	200~230
Injection molding-Mold temperatrue			℃	40~80
Injection molding-Pre-drying Temperature			℃	70~80
Injcetion 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.

Last update : 2009-01-16