ABS AF366F

ABS LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**70**	g/10min	ASTM D 1238
Temperature	**220**	°C	-
Load	**10**	kg	-
Mold Shrinkage, MD	**0.0055**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**2158**	MPa	ASTM D 638
Tensile Strength at Yield	**39.2**	MPa	ASTM D 638
Elongation at Yield	**5**	%	ASTM D 638
Elongation at Break	**20**	%	ASTM D 638
Flexural Modulus	**2354**	MPa	ASTM D 790
Flexural Strength	**65.7**	MPa	ASTM D 790
Rockwell Hardness	**R 105**	-	ASTM D 785
Izod Impact notched, 1/8 in	**206**	J/m	ASTM D 256
Izod Impact notched, 1/4 in	**157**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**58.9**	J/m	ASTM D 256
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**2.0**	mm	-
Burning behav. 5V at thickness h	**5VB**	class	IEC 60695-11-20
Thickness tested	**2.0**	mm	-
ASTM Data			
UL 94 Flame rating	**V-0**	-	UL 94
Thickness tested	**1.5**	mm	-
DTUL @ 66 psi	**89**[1]	°C	ASTM D 648
DTUL @ 264 psi	**83**[1]	°C	ASTM D 648
Vicat Temperature	**90**	°C	ASTM D 1525

1: 6.4 mm

Other properties	Value	Unit	Test Standard
Density	**1190**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 90**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.01**	%	-
Melt temperature	**200 - 230**	°C	-
Mold temperature	**40 - 60**	°C	-
Zone 1	**170 - 190**	°C	-
Zone 2	**180 - 200**	°C	-
Zone 3	**190 - 210**	°C	-
Nozzle temperature	**200 - 230**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.5 - 1**	MPa	-

Characteristics

Processing

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical

Special Characteristics
Flame retardant

Regional Availability
North America, Europe, Asia Pacific, South and Central America