

Sindustris ABS LAF471S

Acrylonitrile Butadiene Styrene
Sincerity Australia Pty Ltd.

Message:
TBBA-free Flame Retardant

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	High Flow		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
	Housings		
	Television Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2160	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	42.2	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield, 3.20 mm	5.0	%	
Break, 3.20 mm	20	%	
Flexural Modulus ⁴ (6.40 mm)	2350	MPa	ASTM D790
Flexural Strength ⁵ (6.40 mm)	66.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	78	J/m	
-30°C, 6.40 mm	69	J/m	
23°C, 3.20 mm	250	J/m	
23°C, 6.40 mm	180	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	95.0	°C	
1.8 MPa, Unannealed, 6.40 mm	85.0	°C	
Vicat Softening Temperature	94.0	°C	ASTM D1525 ⁶
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
	V-0		
2.00 mm	5VA		
	V-0		
3.00 mm	5VA		
Extrusion	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Melt Temperature	200 to 230	°C	
Die Temperature	200 to 230	°C	
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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