



LG Chemical AF-303S ABS Resin (discontinued **)**Categories:** [Polymer](#); [Thermoplastic](#); [ABS Polymer](#); [Acrylonitrile Butadiene Styrene \(ABS\)](#), [Unreinforced](#), [Flame Retardant](#)**Material Notes:** High flow, Applications include televisions, VTR monitors, computer and other electrical, electric parts requiring flame retardant properties**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	54 g/10 min @Load 10.0 kg, Temperature 220 °C	54 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength, Yield	41.0 MPa	5950 psi	50 mm/min; ASTM D638
Elongation at Break	20 %	20 %	50 mm/min; ASTM D638
Modulus of Elasticity	2.08 GPa	302 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	67.0 MPa	9720 psi	50 mm/min; ASTM D790
Flexural Modulus	2.37 GPa	344 ksi	15 mm/min; ASTM D790
Izod Impact, Notched 	2.30 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	4.31 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	ASTM D256
	2.60 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	4.87 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	UL Rating PLC 6 (60-120 sec)
Comparative Tracking Index	>= 600 V	>= 600 V	UL Rating PLC 0 (>600 volts)
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	UL Rating PLC 4 (7-15 sec)
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL Rating PLC 0 (>120 arcs)
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	UL Rating PLC 1 (10-25.4 mm/min)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.0 °C @Thickness 6.35 mm	169 °F @Thickness 0.250 in	Unannealed; ASTM D648
Vicat Softening Point	88.0 °C	190 °F	1000 g; ASTM D1525
Flammability, UL94 	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	
	V-0 @Thickness 1.59 mm	V-0 @Thickness 0.0625 in	
	5VB @Thickness 2.54 mm	5VB @Thickness 0.100 in	

Descriptive Properties			
IEC 707 Flammability		FVO mm/min.	1/16 in

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Materials flagged as discontinued (🚫) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

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