

LG Chemical AP163 ABS, Permanent Anti-Static

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

Feature: Injection Molding, Permanent Anti-Static
 Application: E & E Products (IC tray etc)
 CAS No. 9003-56-9
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-AP163-ABS-Permanent-Anti-Static.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	30 g/10 min @Load 10.0 kg, Temperature 220 Å°C	30 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ASTM D785
Tensile Strength, Yield	43.1 MPa @Thickness 3.20 mm	6260 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	>= 10 % @Thickness 3.20 mm	>= 10 % @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Yield	>= 5.0 % @Thickness 3.20 mm	>= 5.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Tensile Modulus	1.66 GPa @Thickness 3.20 mm	240 ksi @Thickness 0.126 in	1 mm/min; ASTM D638
Flexural Yield Strength	69.6 MPa @Thickness 3.20 mm	10100 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	4.90 J/cm @Thickness 3.20 mm	9.18 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 Å°C @Thickness 6.40 mm	194 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Å°C @Thickness 6.40 mm	189 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	94.0 Å°C @Load 5.00 kg	201 Å°F @Load 11.0 lb	50Å°C/h; ASTM D1525
UL RTI, Electrical	60.0 Å°C @Thickness >=1.50 mm	140 Å°F @Thickness >=0.0591 in	UL 746B
	60.0 Å°C @Thickness >=3.00 mm	140 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Å°C @Thickness >=1.50 mm	140 Å°F @Thickness >=0.0591 in	UL 746B
	60.0 Å°C @Thickness >=3.00 mm	140 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Å°C @Thickness >=1.50 mm	140 Å°F @Thickness >=0.0591 in	UL 746B
	60.0 Å°C @Thickness >=3.00 mm	140 Å°F @Thickness >=0.118 in	
Flammability, UL94	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	
	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	ASTM D257
Arc Resistance	120 - 180 sec	120 - 180 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	Solution A; IEC 60112
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	

Electrical Properties	Metric @Thickness >=1.50 mm	English @Thickness >=0.0591 in	Comments
	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Middle Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Nozzle Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	Injection Molding
Mold Temperature	40.0 - 70.0 Â°C	104 - 158 Â°F	Injection Molding
Drying Temperature	80.0 Â°C	176 Â°F	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China