

XYRON™ AT600

Asahi Kasei Corporation - Polyamide + PPE

General Information

Product Description		
Modified PPE PA/PPE alloy Non-reinforced Non-Flame retardant Easy Flow Heat Resistnce High		
General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Features	• High Flow	
Automotive Specifications	• GM GMP.PA66+PPE.002 Color: U7012 Black	• STELLANTIS MS-DB-414
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >PA66+PPE<	

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Molding Shrinkage ² (0.118 in)	1.4	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	8850	psi	ISO 527
Tensile Strain (Break, 73°F)	54	%	ISO 527
Flexural Modulus (73°F)	348000	psi	ISO 178
Flexural Stress (73°F)	13300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	14	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	374	°F	ISO 75-2/B
CLTE - Flow (-22 to 149°F)	5.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	5.0E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (73°F)	4.1E+15	ohms·cm	IEC 60093
Dielectric Constant (5.20 GHz)	2.80		SPDR
Dielectric Constant			IEC 60250
100 Hz	3.10		
1 MHz	2.90		
Dissipation Factor (5.20 GHz)	8.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	5.0E-3		
1 MHz	0.011		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	230 to 266	°F
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	140 to 248	°F



Injection Notes

Recommended processing (melt) temperature of XYRON™ Polyamide + PPE is 280-300°C. Lower temperatures may lead to local degradation in properties due to non-uniform plasticization, while higher temperatures tend to cause silver streaking, other appearance problems and decomposition.

Notes

¹ Typical properties: these are not to be construed as specifications.

² 120x80x3 mm

³ 4 mm

