XYRON™ A0210
Asahi Kasei Corporation - *Polyamide + PPE*

General Information

Product Description

Modified PPE
PA/PPE alloy
Non-reinforced Non-Flame retardant
Easy FLow

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Features	• High Flow
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66+PPE<

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm³	ISO 1183
Molding Shrinkage [2] (0.118 in)	1.3	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	9430	psi	ISO 527
Tensile Strain (Break, 73°F)	42	%	ISO 527
Flexural Modulus (73°F)	363000	psi	ISO 178
Flexural Stress (73°F)	14100	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	10	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	349	°F	ISO 75-2/B
CLTE - Flow (-22 to 149°F)	4.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	5.2E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (73°F)	2.1E+15	ohms·cm	IEC 60093
Dielectric Constant (5.20 GHz)	2.90		SPDR
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.00		
Dissipation Factor (5.20 GHz)	0.011		SPDR
Dissipation Factor			IEC 60250
100 Hz	7.0E-3		
1 MHz	0.012		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	230 to 266	°F
Drying Time - Hot Air Dryer	2.0 to 3.0	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.