XYRON™ TT521

Asahi Kasei Corporation - *Polyphenylene Ether + PP*

General Information

Product Description		
Modified PPE PP/PPE alloy 20% Filler Reinforced Dimensional stability Good		
General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Filler / Reinforcement	• Mineral, 20% Filler by Weight	
Features	• Gas Barrier • Good Dimensional Stability	• Low Warpage • Moisture Barrier
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >PP+PPE-MD20<	

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density (73°F)	1.13	g/cm³	ISO 1183
Molding Shrinkage [2] (0.0787 in)	0.70 to 0.90	%	Internal Method
Water Absorption (24 hr, 73°F)	0.040	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (73°F)	5950	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	20	%	ISO 527
Flexural Modulus (73°F)	421000	psi	ISO 178
Flexural Stress (73°F)	8990	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	2.9	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	228	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	2.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.2E-5	in/in/°F	ISO 11359-2
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.030 in)	HB		UL 94

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature - Hot Air Dryer	194 to 230	°F
Drying Time - Hot Air Dryer	3.0 to 4.0	hr
Processing (Melt) Temp	482 to 536	°F
Mold Temperature	122 to 194	°F

Notes

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

[2] 150x150x2 mm

[3] 4 mm