

**Xytron™ G3084E**

Envalior - Polyphenylene Sulfide

**General Information**

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Impact Modifier		
Features	• Impact Modified		
Processing Method	• Injection Molding		
Resin ID	• PPS-I-GF30		

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.65	%	
Flow	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.58E+6	psi	ISO 527-1
Tensile Stress (Break)	23800	psi	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Flexural Modulus	1.45E+6	psi	ISO 178
Flexural Stress	35100	psi	ISO 178
Weldline Strain	0.90	%	ISO 527-2
Weldline Strength	10443	psi	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	31	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	500	°F	ISO 75-2/A
Glass Transition Temperature <sup>2</sup>	194	°F	ISO 11357-2
Melting Temperature <sup>2</sup>	536	°F	ISO 11357-3
CLTE - Flow			ISO 11359-2
-- <sup>3</sup>	7.2E-6	in/in/°F	
--	9.4E-6	in/in/°F	
CLTE - Transverse			ISO 11359-2
--	2.8E-5	in/in/°F	
-- <sup>3</sup>	7.1E-5	in/in/°F	
Thermal Conductivity			ASTM E1461
-- <sup>4</sup>	1.9	Btu·in/hr/ft <sup>2</sup> /°F	
-- <sup>5</sup>	2.1	Btu·in/hr/ft <sup>2</sup> /°F	
RTI Elec (0.06 in)	266	°F	UL 746B
RTI Imp (0.06 in)	266	°F	UL 746B
RTI Str (0.06 in)	266	°F	UL 746B
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method



Flame Rating		UL 94
0.08 in	V-0	
0.12 in	V-0	
Flammability Classification		IEC 60695-11-10, -20
0.08 in	V-0	
0.12 in	V-0	

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min

<sup>3</sup> above T<sub>g</sub>

<sup>4</sup> in plane

<sup>5</sup> through plane

