

Xytron™ G4010T

PPS–GF40

40% Glass Fiber Reinforced, Flame Retardant, High Flow

Print Date: 2025–12–11

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>VALUE</i>		
Molding shrinkage (parallel)	0.2	%	ISO 294–4
Molding shrinkage (normal)	0.5	%	ISO 294–4
<i>MECHANICAL PROPERTIES</i>			
	<i>VALUE</i>		
Tensile modulus	15000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	7300	MPa	ISO 527–1/–2
Tensile modulus (160°C)	5200	MPa	ISO 527–1/–2
Tensile modulus (200°C)	3400	MPa	ISO 527–1/–2
Stress at break	200	MPa	ISO 527–1/–2
Stress at break (120°C)	105	MPa	ISO 527–1/–2
Stress at break (160°C)	73	MPa	ISO 527–1/–2
Stress at break (200°C)	55	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Strain at break (120°C)	3.1	%	ISO 527–1/–2
Strain at break (160°C)	3.9	%	ISO 527–1/–2
Strain at break (200°C)	6.4	%	ISO 527–1/–2
Flexural modulus	14500	MPa	ISO 178
Flexural strength	300	MPa	ISO 178
Flexural modulus (120°C)	10000	MPa	ISO 178
Flexural modulus (160°C)	5000	MPa	ISO 178
Flexural modulus (200°C)	4200	MPa	ISO 178
Charpy impact strength (+23°C)	56	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	57	kJ/m ²	ISO 179/1eU

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied. Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect. Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values. Copyright © Envalior 2025. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

Property Data

Xytron™ G4010T

Print Date: 2025-12-11

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Charpy notched impact strength (+23°C)	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	48	kJ/m ²	ISO 180/1U
Izod notched impact strength (+23°C)	10.5	kJ/m ²	ISO 180/1A
Rockwell hardness, R scale	121	–	ISO 2039-2
Rockwell hardness, M scale	100	–	ISO 2039-2

<i>THERMAL PROPERTIES</i>	<i>VALUE</i>		
Melting temperature (10°C/min)	280	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	265	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.15	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, parallel, above Tg	0.15	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.1	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	Yes	–	–
Burning Behav. at 3.0 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
UL recognition	Yes	–	–
Relative Temperature Index – electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.8	mm	UL746B
Thermal conductivity in plane	0.4	W/(m K)	ASTM E1461
Thermal conductivity through plane	0.33	W/(m K)	ASTM E1461

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	31	kV/mm	IEC 60243-1
Comparative tracking index	175	V	IEC 60112

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied. Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect. Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values. Copyright © Envalior 2025. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

Property Data

Xytron™ G4010T

Print Date: 2025-12-11

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Dissipation factor (5GHz)	55	E-4	IEC 61189-2-721
Relative permittivity (5GHz)	4	–	IEC 61189-2-721
<i>OTHER PROPERTIES</i>			
	<i>VALUE</i>		
Density	1650	kg/m ³	ISO 1183
Humidity absorption	0.04	%	Sim. to ISO 62

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied. Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect. Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values. Copyright © Envalior 2025. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.