

Xytron™ G4020DW–FC

PPS–GF40

40% Glass Fiber Reinforced, Drinking Water Grade, Food Contact Quality, Flame Retardant

Print Date: 2025–12–11

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Molding shrinkage (parallel)	0.2	%	ISO 294–4
Molding shrinkage (normal)	0.5	%	ISO 294–4
MECHANICAL PROPERTIES		VALUE	
Tensile modulus	15000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	6700	MPa	ISO 527–1/–2
Tensile modulus (160°C)	5300	MPa	ISO 527–1/–2
Tensile modulus (200°C)	4100	MPa	ISO 527–1/–2
Stress at break	200	MPa	ISO 527–1/–2
Stress at break (120°C)	85	MPa	ISO 527–1/–2
Stress at break (160°C)	65	MPa	ISO 527–1/–2
Stress at break (200°C)	50	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Strain at break (120°C)	4.1	%	ISO 527–1/–2
Strain at break (160°C)	3.8	%	ISO 527–1/–2
Strain at break (200°C)	3.9	%	ISO 527–1/–2
Flexural modulus	14000	MPa	ISO 178
Flexural strength	280	MPa	ISO 178
Flexural modulus (120°C)	8200	MPa	ISO 178
Flexural modulus (160°C)	5000	MPa	ISO 178
Flexural modulus (200°C)	4300	MPa	ISO 178
Charpy impact strength (+23°C)	60	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	62	kJ/m²	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.

Xytron™ G4020DW–FC

Print Date: 2025–12–11

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Charpy notched impact strength (+23°C)	10.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	11	kJ/m²	ISO 179/1eA

THERMAL PROPERTIES	VALUE		
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	170	°C	UL746B
RTI electrical (Thickness (1) tested)	0.4	mm	UL746B

ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Electric strength	22	kV/mm	IEC 60243–1
Comparative tracking index	150	V	IEC 60112
Dissipation factor (5GHz)	55	E–4	IEC 61189–2–721
Relative permittivity (5GHz)	4	–	IEC 61189–2–721

OTHER PROPERTIES	VALUE		
Density	1650	kg/m³	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.