

Xytron™ G4080HR

PPS–GF40

40% Glass Fiber Reinforced, Flame Retardant, Hydrolysis Stabilized

Print Date: 2026–04–09

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)	6300	MPa	ISO 527–1/–2
Tensile modulus (160°C)	4400	MPa	ISO 527–1/–2
Tensile modulus (200°C)	3500	MPa	ISO 527–1/–2
Stress at break	190	MPa	ISO 527–1/–2
Stress at break (120°C)	85	MPa	ISO 527–1/–2
Stress at break (160°C)	62	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)	4.5	%	ISO 527–1/–2
Strain at break (160°C)	5.1	%	ISO 527–1/–2
Strain at break (200°C)	5.8	%	ISO 527–1/–2
Flexural modulus	14000	MPa	ISO 178
Flexural strength	290	MPa	ISO 178
Flexural modulus (120°C)	5800	MPa	ISO 178
Flexural modulus (160°C)	4400	MPa	ISO 178
Flexural modulus (200°C)	3900	MPa	ISO 178
Charpy impact strength (+23°C)	60	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	70	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 2026. 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™ G4080HR

Print Date: 2026-04-09

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Charpy notched impact strength (+23°C)	10.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	55	kJ/m ²	ISO 180/1U
Izod notched impact strength (+23°C)	11.5	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	10.5	kJ/m ²	ISO 180/1A
Rockwell hardness, R scale	120	–	ISO 2039-2
Rockwell hardness, M scale	100	–	ISO 2039-2

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

ELECTRICAL PROPERTIES

VALUE

Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	31	kV/mm	IEC 60243-1
Comparative tracking index	175	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/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 2026. 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.