

Durethan® BKV50H3.0EF

PA6—GF50

50% Glass Fiber Reinforced, Injection Molding, Heat Stabilized, High Flow

Print Date: 2025-08-21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES		DRY / COND	
Tensile modulus	16700 / 11000	MPa	ISO 527-1/-2
Stress at break	220 / 140	MPa	ISO 527-1/-2
Strain at break	2.5 / 4	%	ISO 527-1/-2
Flexural modulus	17000 / 11700	MPa	ISO 178
Flexural strength	345 / 225	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 90	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 80	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 20	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15 / 15	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 20	kJ/m²	ISO 180/1A
THERMAL PROPERTIES		DRY / COND	
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	212 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
OTHER PROPERTIES		DRY / COND	
Density	1600 / -	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS		VALUE	
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2-6	h	
Residual moisture content	0.03-0.12	%	acc. to Karl Fischer

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.

Durethan® BKV50H3.0EF

Print Date: 2025-08-21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80–120	°C	

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.