

Durethan[®] ECOAKV30H2.0

PA66-GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Recycled Content

Print Date: 2024-12-10

Sustainability

Mass balanced Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.39 / *	%	ISO 294-4
Molding shrinkage (normal)	0.93 / *	%	ISO 294-4

DRY / COND

MECHANICAL PROPERTIES

Tensile modulus	10000 / 6000	MPa	ISO 527-1/-2
Stress at break	175 / 110	MPa	ISO 527-1/-2
Strain at break	3/6	%	ISO 527-1/-2
Flexural modulus	9200 / 5700	MPa	ISO 178
Flexural strength	270 / 180	MPa	ISO 178
Charpy impact strength (+23°C)	75 / 85	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 60	kJ∕m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / 14	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 15	kJ/m²	ISO 180/1A

THERMAL PROPERTIES	DRY / COND	DRY / COND		
Melting temperature (10°C/min)	263 / *	°C	ISO 11357-1/-3	
Temp. of deflection under load (1.80 MPa)	242 / *	°C	ISO 75-1/-2	
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75-1/-2	

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

Selier type sectors and war hat be express or implied. Selier tables whether express or implied. Selier 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 Selier's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Selier 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 2024. 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

Durethan[®] ECOAKV30H2.0

Print Date: 2024-12-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (parallel)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Oxygen index	23 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	700 /	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	700 / -	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-12

ELECTRICAL PROPERTIES

DRY / COND

4 / 12	_	IEC 62631-2-1
4 / 4	_	IEC 62631-2-1
120 / 2700	E-4	IEC 62631-2-1
190 / 800	E-4	IEC 62631-2-1
1E13 / 1E10	Ohm*m	IEC 62631-3-1
* / 1E13	Ohm	IEC 62631-3-2
35 / 30	kV/mm	IEC 60243-1
475 / -	V	IEC 60112
	4 / 4 120 / 2700 190 / 800 1E13 / 1E10 * / 1E13 35 / 30	4 / 4 - 120 / 2700 E-4 190 / 800 E-4 1E13 / 1E10 Ohm*m * / 1E13 Ohm 35 / 30 kV/mm

OTHER PROPERTIES	DRY / COND		
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	2/*	%	Sim. to ISO 62
Density	1360 / -	kg∕m³	ISO 1183

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

Selier represents and warrants exclusively that on the date of delivery by selier the product shall be in comorning with the specifications agreed upon. Selier hakes no other representations or warrants, whether express or implied. Selier 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 Selier's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Selier 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 2024. 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

Durethan[®] ECOAKV30H2.0

Print Date: 2024-12-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MATERIAL SPECIFIC PROPERTIES	DRY / COND		
Viscosity number	146 / *	cm³∕g	ISO 307, 1157, 1628
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
Melt temperature (Tmin – Tmax)	280-300	°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

Selier represents and warrants exclusively that on the date of delivery by selier the product shall be in comorning with the specifications agreed upon. Selier hakes no other representations or warrants, whether express or implied. Selier 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 Selier's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Selier 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 2024. 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.