

# Durethan® ECOAKV35H2.0 SR1

## PA66–GF35

35% Glass Reinforced, Injection Molding, Heat Stabilized, Excellent Surface Properties,  
 Recycled Content

Print Date: 2024–09–17

### Sustainability

Mass balanced  
 Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.32 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	11200 / 7500	MPa	ISO 527–1/–2
Stress at break	190 / 130	MPa	ISO 527–1/–2
Strain at break	3 / 5	%	ISO 527–1/–2
Flexural modulus	10500 / 6700	MPa	ISO 178
Flexural strength	295 / 200	MPa	ISO 178
Charpy impact strength (+23°C)	80 / 90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	70 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 20	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	10 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (–40°C)	<10 / <10	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Melting temperature (10°C/min)	263 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	250 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75–1/–2

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## Property Data

# Durethan® ECOAKV35H2.0 SR1

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	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
Oxygen index	23 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	600 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2 / -	mm	IEC 60695-2-12

### ELECTRICAL PROPERTIES

#### DRY / COND

Relative permittivity (100Hz)	4 / 10	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4	-	IEC 62631-2-1
Dissipation factor (100 Hz)	110 / 2100	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 650	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	35 / 30	kV/mm	IEC 60243-1

### OTHER PROPERTIES

#### DRY / COND

Water absorption	5 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1410 / -	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
Melt temperature (Tmin – Tmax)	280-300	°C	
Mold temperature	80-120	°C	

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