

Durethan® BKV140H2.0 900051 DUS008
PA6-I-GF40

Envalior

Injection Molding, 40% Glass Reinforced, Heat Stabilized, Improved Impact

ISO 1043 PA6-I-GF40

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	12500 / 7800	MPa	ISO 527
Stress at Break	180 / 120	MPa	ISO 527
Strain at Break	3.5 / 8.5	%	ISO 527
Impact Strength (Charpy), +23°C	95 / 110	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	95 / 90	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	20 / 30	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10 / 10	kJ/m ²	ISO 179/1eA
Puncture - maximum force, +23°C	1200 / 1300	N	ISO 6603-2
Puncture - maximum force, -30°C	930 / 970	N	ISO 6603-2
Puncture energy, +23°C	5.5 / 7.5	J	ISO 6603-2
Puncture energy, -30°C	3.5 / 3.5	J	ISO 6603-2

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	90 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	20 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.5 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4 / 9	-	IEC 62631-2-1
Relative permittivity, 1MHz	4 / 4	-	IEC 62631-2-1
Volume Resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Electric Strength	35 / 43	kV/mm	IEC 60243-1
Comparative tracking index	425 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1460 / -	kg/m ³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	290	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Characteristics
Processing

Injection Molding

Special Characteristics

Impact modified, Heat aging stabilized

Delivery form

Pellets

Injection Molding

PREPROCESSING

Residual moisture content: 0.03 - 0.12%

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Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 260 - 290 °C

Mold temperature: 80 - 100 °C
