Durethan® AKV230H2.0 901510

PA66-I-GF30 Envalior

Product Texts

Injection Molding, 30% Glass Reinforced, Heat Stabilized, Improved Impact

ISO 1043 PA66-I-GF30

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.5 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.8 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**8000 / 5100**	MPa	ISO 527
[C] Stress at break	**130 / 85**	MPa	ISO 527
[C] Strain at break	**4 / 6.5**	%	ISO 527
Flexural modulus, 23°C	**7000 / 4600**	MPa	ISO 178
[C] Charpy impact strength, +23°C	**75 / 80**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**85 / 85**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**20 / 28**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**15 / 15**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**65 / 70**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**20 / 28**	kJ/m²	ISO 180/1A
Izod notched impact strength	**15 / 15**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
[C] Puncture - maximum force, +23°C	**1200 / 1450**	N	ISO 6603-2
[C] Puncture - maximum force, -30°C	**950 / 700**	N	ISO 6603-2
[C] Puncture energy, +23°C	**7 / 10**	J	ISO 6603-2
[C] Puncture energy, -30°C	**4 / 2.5**	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**262 / ***	°C	ISO 11357-1/-3

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Density	**1290 / -**	kg/m³	ISO 1183

[C]: CAMPUS

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

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 6**	h	-
Processing humidity	**≤0.12**	%	-
Melt temperature	**280 - 300**	°C	-
Mold temperature	**80 - 120**	°C	-

Characteristics

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Processing
Injection Molding

Delivery form
Pellets

Special Characteristics
High impact or impact modified, Heat stabilized or stable to heat

Features
Thermal Stability

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
PREPROCESSING
Residual moisture content: 0.03 - 0.12%
Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING
Melt temperature (Tmin - Tmax): 280 - 300 °C

Mold temperature: 80 - 120 °C

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