Durethan® BKV50H2.0 901510 SR1

PA6-GF50 Envalior

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**16400 / 9600**	MPa	ISO 527
Stress at break	**225 / 140**	MPa	ISO 527
Strain at break	**3 / 5**	%	ISO 527
Flexural modulus, 23°C	**15900 / 10000**	MPa	ISO 178
Flexural strength	**365 / 230**	MPa	ISO 178
Charpy impact strength, +23°C	**95 / 95**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**100 / 90**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**18 / 25**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**15 / 15**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**90 / 85**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**18 / 25**	kJ/m²	ISO 180/1A

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**225 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**209 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**220 / ***	°C	ISO 75-1/-2
Vicat softening temperature, B	**215 / ***	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**16.5 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**81 / ***	E-6/K	ISO 11359-1/-2

Other properties	dry / cond	Unit	Test Standard
Density	**1570 / -**	kg/m³	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

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 6**	h	-

Characteristics

Processing	Special Characteristics
Injection Molding	Heat stabilized or stable to heat