

Durethan® BKV35CXH2.0 900876 DUS051
PA6-GF35

Envalior

Rheological properties	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	10500 / -	MPa	ISO 527
Stress at Break	170 / -	MPa	ISO 527
Strain at Break	3 / -	%	ISO 527
Impact Strength (Charpy), +23°C	80 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	65 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	12 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	9500 / -	MPa	ISO 178
Flexural strength	250 / -	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	12 / -	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	10 / -	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Impact Strength (Izod), 23°C	70 / -	kJ/m²	ISO 180/1U

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
Vicat softening temperature, 50°C/h 50N	210 / *	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	100 / *	E-6/K	ISO 11359-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1410 / -	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	270	°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	-
Processing humidity	≤0.12	%	-
Melt temperature	250 - 290	°C	-
Mold temperature	80 - 120	°C	-

Characteristics
Processing

Injection Molding

Special Characteristics

Heat aging stabilized