

Durethan® BKV240H2.0XCP

PA6-I-GF40

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

Print Date: 2024-09-17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	0.73 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	11000 / 6000	MPa	ISO 527-1/-2
Stress at break	160 / 100	MPa	ISO 527-1/-2
Strain at break	5.5 / 11	%	ISO 527-1/-2
Flexural modulus	10100 / 6300	MPa	ISO 178
Flexural strength	255 / 150	MPa	ISO 178
Tensile modulus (200°C)	2710	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	110 / 125	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	105 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	30 / 50	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	17 / -	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	28 / 40	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	203 / *	°C	ISO 75-1/-2
OTHER PROPERTIES	DRY / COND		
Density	1410 / -	kg/m³	ISO 1183

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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	80-100	°C	

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