



Desmopan DP 3970D

Glass fiber reinforced grades / Shore hardness D 70 - 74

injection molding grade; 20 % Glass fiber reinforced; good heat resistance; low coefficient of linear thermal expansion; Application; Automotive engineering; Injection molded engineering parts

ISO Shortname

Property	Test Condition	Unit	Standard	Value		
				drying	annealed	-
				according to specifications		
Mechanical properties (23 °C/50 % r. h.)						
C shore hardness, method A		-	ISO 868		99	
C shore hardness, method D		-	ISO 868		70	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		64	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		25	
C Flexural modulus	2 mm/min	MPa	ISO 178		1700	
C Charpy impact strength	23 °C	kJ/m²	ISO 179/1eU		150	
C Charpy impact strength	-30 °C	kJ/m²	ISO 179/1eU		82	
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179/1eA		57	
C Charpy notched impact strength	-30 °C	kJ/m²	ISO 179/1eA		14,3	
Thermal properties						
C Vicat softening temperature	10 N; 120 °C/h	°C	ISO 306		120	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2		130	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2		150	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10-4/K	ISO 11359-1,-2		0,2	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10-4/K	ISO 11359-1,-2		1,4	
C Torsional storage modulus	-20 °C	MPa	ISO 6721-2		2870	
C Torsional storage modulus	23 °C	MPa	ISO 6721-2		1450	
C Torsional storage modulus	70 °C	MPa	ISO 6721-2		765	
C Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		2870	
C Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		1519	
C Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		877	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1376
Molding conditions						
C Injection molding-Melt temperature		°C	-	220 - 245		
C Injection molding-Mold temperature		°C	-			40 - 80
C Maximum drying temperature		°C	-			110

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

