

Tecotek® PC40 GR20 BK

PC, 20% glass fiber reinforced, black

Property (dry as molded)	Condition	Value	Unit	Standard
General Properties				
Abbreviation	-	PC GF20	-	ISO 1043
Density	-	1,33	g/cm ³	ISO 1183
Melt Flow Rate	1.2kg, 300 °C	10	g/10'	ISO 1133
Molding Shrinkage	Parallel / Normal	0,5 / 0,5	%	Eurotec
Moisture Content	-	<0,1	%	ISO 15512
Moisture Absorption	50% RH, 23 °C	0,2	%	ISO 62
Mechanical Properties				
Stress at Break	+23°C	110	MPa	ISO 527
Strain at Break	+23°C	2,5	%	ISO 527
Tensile Modulus	+23°C	6500	MPa	ISO 527
Yield Strength	+23°C	-	MPa	ISO 527
Izod Impact, notched	+23 °C	13	kJ/m ²	ISO 180/1A
Izod Impact, notched	-30 °C	10	kJ/m ²	ISO 180/1A
Izod Impact, un-notched	+23 °C	-	kJ/m ²	ISO 180/1U
Izod Impact, un-notched	-30 °C	-	kJ/m ²	ISO 180/1U
Thermal Properties				
Melting Temperature	10 K/min	-	°C	ISO 11357
Heat Deformation Temperature	0.45 MPa	-	°C	ISO 75
Heat Deformation Temperature	1.80 MPa	140	°C	ISO 75
Vicat Softening Temperature	50N	-	°C	ISO 306
Electrical Properties & Flammability				
Volume Resistivity	-	1E+15	Ohm.cm	IEC 60093
Surface Resistivity	-	1E+15	Ohm	IEC 60093
Comparative Tracking Index	solution A	175	V	IEC 60112
Glow Wire Flammability Index (GWFI)	2 mm plaque	-	°C	IEC 60695
Glow Wire Ignitability Temperature (GWIT)	2 mm plaque	925	°C	IEC 60695
Flame Rating	0.75 mm	HB	-	UL94
Flame Rating	1.6 mm	HB	-	UL94
Processing Parameters				
Drying		120 / 3 - 4	°C / hr	
Feed Throat Temperature		60 - 80	°C	
Processing Temperature		270 - 310	°C	
Mold Temperature		80 - 100	°C	
Hold Pressure		60 - 120	MPa	
Back Pressure		Low	-	
Injection Speed		Medium - Fast	-	

All mentioned information in this technical data sheet present current knowledge and experience of Eurotec. The data may not be valid when this product is used in combination with other materials such as pigments or additives. Please note that the data are given dry as molded values related to the mentioned material only. Naturally, these data do not guarantee certain values since may vary on customers processing conditions, so they are provided for reference purposes only and should not be used alone to create specification limits and design basis. It is strongly recommended for customers to test the product under their own processing conditions and test facilities to determine the suitability for the required application and use.