

VIPLON G04

PC medium viscosity, glass fibre reinforced 20 %, good mechanical properties, good dimensional stability

Properties	Test Method	Unit	Typical Value
Physical			
MFI	ISO 292	g/10'	12
Density (23°C)	ISO 1183	g/cm ³	1,33-1,35
Water Absorption (24h/23°C)	ISO 62	%	0,08
Water Absorption at Saturation	ISO 62	%	0,25
Mould Shrinkage (Parallel)	ASTM D-955	%	0,3-0,5
Mould Shrinkage (Normal)	ASTM D-955	%	0
Mechanical			
Izod Notched Impact (+23 °C)	ISO 180	J/m	125
Izod Notched Impact Strength(-20 °C)	ISO 180	J/m	115
Charpy Notched Impact (+23 °C)	ISO 179	kJ/m ²	9
Charpy Unnotched Impact (+23 °C)	ISO 179	kJ/m ²	42
Charpy Unnotched Impact (-20 °C)	ISO 179	kJ/m ²	38
Tensile Modulus	ASTM D-638	N/mm ²	6000
Elongation at Break	ASTM D-638	%	4
Tensile Break Strength	ASTM D-638	N/mm ²	90
Tensile Yield Strength	ASTM D-638	N/mm ²	0
Thermal			
Vicat Temperature (1kg)	ASTM D-1525	°C	153
Vicat Temperature (5kg)	ASTM D-1525	°C	147
Heat Deflection Temperature (0,45 N/mm ²)	ASTM D-648	°C	0
Heat Deflection Temperature (1,82 N/mm ²)	ASTM D-648	°C	142
Continuous Service Temperature (20.000 h)	60216/P1 IEC	°C	135
Electrical			
Volume Resistivity	ASTM D-257	Ohm cm	>10EXP(16)
Tracking Resistance (CTI-Method A)	60112 IEC	Volt	150
Electric Strength (Thickness)	ASTM D-149	kV/mm	22
Flammability			
Flammability Rating	UL 94	-	V1 (3,2 mm)
Glow Wire Test	60695-2-1 IEC	°C	850°@2 mm

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