

Vyncolit® TX10916/5

Phenolic

SBHPP

Message:

Vyncolit® TX10916/5 is a graphite filled phenolic molding compound with very good dimensional stability and a low coefficient of friction.

General Information			
Filler / Reinforcement	Graphite powder, 65% filler by weight		
Features	Good dimensional stability		
	Low friction coefficient		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Part Marking Code (ISO 11469)	>PF-CD65		
Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm ³	ISO 1183
Apparent Density	0.86	g/cm ³	ISO 60
Molding Shrinkage	0.43	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.050	%	ISO 62
Post Shrinkage	0.090	%	ISO 2577
Flexural Strain at Break	0.63	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18000	MPa	ISO 527-2
Tensile Stress	56.0	MPa	ISO 527-2
Tensile Strain (Break)	0.38	%	ISO 527-2
Flexural Modulus	16000	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178
Compressive Stress	166	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.4	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	3.6	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	175	°C	ISO 75-2/Af
Linear thermal expansion coefficient			TMA
Flow	1.4E-5	cm/cm/°C	TMA
Lateral	3.2E-5	cm/cm/°C	TMA

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