

Vyncolit® TX10916

Phenolic

SBHPP

Message:

Vyncolit® TX10916 is a graphite filled phenolic molding compound with excellent 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	1.63	g/cm ³	ISO 1183
Apparent Density	0.90	g/cm ³	ISO 60
Molding Shrinkage	0.44	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.060	%	ISO 62
Post Shrinkage	0.080	%	ISO 2577
Flexural Strain at Break	0.62	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19000	MPa	ISO 527-2
Tensile Stress	50.0	MPa	ISO 527-2
Tensile Strain (Break)	0.47	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178
Compressive Stress	162	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.3	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	2.9	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	166	°C	ISO 75-2/Af
Linear thermal expansion coefficient			TMA
Flow	2.0E-5	cm/cm/°C	TMA
Lateral	2.8E-5	cm/cm/°C	TMA

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