

Vyncolit® TX10916/30/1

Phenolic
SBHPP

Message:

Vyncolit® TX10916/30/1 is a graphite filled phenolic molding compound used for low friction applications where dimensional stability is required.

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	1.64	g/cm ³	ISO 1183
Apparent Density	0.86	g/cm ³	ISO 60
Molding Shrinkage	0.54	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.030	%	ISO 62
Post Shrinkage	0.11	%	ISO 2577
Flexural Strain at Break	0.68	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2
Tensile Stress	54.0	MPa	ISO 527-2
Tensile Strain (Break)	0.39	%	ISO 527-2
Flexural Modulus	13000	MPa	ISO 178
Flexural Stress	83.0	MPa	ISO 178
Compressive Stress	161	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.3	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	3.1	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	159	°C	ISO 75-2/Af
Linear thermal expansion coefficient			TMA
Flow	2.0E-5	cm/cm/°C	TMA
Lateral	3.1E-5	cm/cm/°C	TMA

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

