Orkot® C321

C321 is manufactured from medium weave fabrics with excellent mechanical strength and possessing dimensional stability when immersed in water, acids and chemical solutions. C321 grade has a high resistance to gamma radiation and is recommended for nuclear engineering applications.

MECHANICAL PROPERTIES

TENSILE STRENGTH	55	N/mm^2
TENSILE MODULUS	3200	N/mm^2
COMPRESSIVE STRENGTH		
Normal to Laminate	300	N/mm^2
Parallel to Laminate	90	N/mm^2
FLEXURAL STRENGTH	65	N/mm^2
FLEXURAL MODULUS	1900	N/mm^2
HARDNESS ROCKWELL M	100	
SHEAR STRENGTH	83	N/mm^2
DENSITY	1.25	g/cm^3
IMPACT STRENGTH Normal to Laminate (Notched Izod) ft LB/in BS2782 and ISO 179-1982	>10.0	
SWELL IN WATER (% of wall thickness after 1 year)	<0.1%	

THERMAL PROPERTIES

LINEAR EXPANSION CO-EFFICIENTS	
20 - 100°C (per ^{o} C X 10^{-5})	
Parallel to Laminate	5 - 6
Normal to Laminate	9 - 10
THERMAL CONDUCTIVITY	0.293 W/mK
SPECIFIC HEAT CAPACITY	1.005 J/kg.K
STATIC CO-EFFICIENT OF FRICTION DRYAT 15 N/mm^2	0.18 - 0.20

THE ABOVE VALUES ARE TYPICAL

The information in this data sheet is based on many decades of experience in the manufacture and application of our products. However, unknown parameters and conditions may restrict general statements during usage. It is vital that Customers satisfy themselves as to the suitability of individual products through adequate testing. For this reason, and due to the wide range of applications of our products, Trelleborg can accept no liability as to the suitability or correctness of our recommendations in individual cases. For specific operating conditions please consult your Trelleborg Sealing Solutions technical representative.

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