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CPVC Technical Data Sheet

Technical Data	Method of Verification	Unit	CPVC
	Physical Properties		
Density	ISO 1183	g/cm3	1.55
Water absorption	ISO 62	%	0.2
	Mechanical Properties		
Tensile strength at yield	ISO 527-2	MPa	57
Tensile strength at break	ISO 527-2	Mpa	80
Elongation at break	ISO 527-2	%	15
Modulus of elasticity after tensile	ISO 527-2	MPa	
Modulus of elasticity after flexural	ISO 178	MPa	
Hardness-Rockwell	ISO 2039-2		-
Hardness - Shore D	DIN 53505		90
Charpy impact strength at 23℃	ISO 179	kJ/m2	
Friction coefficient	DIN 53375		0.6
	Thermal Properties		
Heat deflection temperature - HDT/A	ISO 75-2	℃	-
Max. service temperature - Short		℃	95
Max. service temperature - Long		℃	90
Thermal conductivity at 23 ℃	DIN 11359	W/(K*m)	0.14
Coefficient of linear thermal	ISO 11359	$10^{-4*}K^{-1}$	0.6
	Electrical Properties		
Dielectric constant at 1 MHz	IEC 60250	10^{6}Hz	3.00
Dielectric loss factor at 1 MHz	IEC 60250	10^{6}Hz	0.01
Volume resistively	IEC 60093	Ohm (Ω) * cm	$\geqslant 10^{15}$
Surface resisively	IEC 60093	Ohm (Ω)	$\geqslant 10^{13}$
Dielectric strength	IEC 60243-1	kV/mm	20-40
	Miscellaneous Data		
Flammability	UL 94	Class	V-0
	Chemical Properties		
Acid resistance			yes
Hydroxid resistance(delute)			yes
Hydrocarbonat resistance			yes
CKW resistance			no
Aromatic resistance			limited
Ketone resistance			no
Resistance against hot water			limited
NOTE: 1 g/cm3 = 1,000 kg/m3, 1 Mpa = 1 N/mm2, 1kV/mm = 1 MV/m			

Statement:

The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Energetic will not provide any legally binding guarantee of certain properties, or any suitability.