

Corzan CPVC (Quadrant)

ASTM D1748, Cell Classification

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Water Absorption	Max 0.04 %	Max 0.04 %	Immersion, 24hr; ASTM D570(2)
Water Absorption at Saturation	Max 0.04 %	Max 0.04 %	Immersion; ASTM D570(2)
Mechanical Properties			
Hardness, Shore D	84	84	ASTM D2240
Tensile Strength, Ultimate	42.4 MPa	6150 psi	ASTM D638
Elongation at Break	12 %	12 %	ASTM D638
Tensile Modulus	1.79 GPa	260 ksi	ASTM D638
Flexural Modulus	2.68 GPa	388 ksi	ASTM D790
Flexural Yield Strength	46.2 MPa	6700 psi	ASTM D790
Compressive Strength	96.5 MPa	14000 psi	10% Def., 73°F; ASTM D695
Compressive Modulus	2.41 GPa	350 ksi	ASTM D695
Izod Impact, Notched	1.71 J/cm	3.2 ft-lb/in	ASTM D256 Type A
Electrical Properties			
Surface Resistivity per Square	Min 1e+012 ohm	Min 1e+012 ohm	ASTM D257
Thermal Properties			
Thermal Properties Maximum Service Temperature, Air	93.3 °C	200 °F	Long Term
	93.3 °C V-0	200 °F V-0	Long Term 1/8 inch
Maximum Service Temperature, Air		200	
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating)		200	
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties	V-0	200	
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA	V-0 Non-Compliant	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability	V-0 Non-Compliant	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability Service in Alcohols	Non-Compliant 6 Acceptable Service	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability Service in Alcohols Service in Aromatic Hydrocarbons Service in Chlorinated Solvents	Non-Compliant 6 Acceptable Service Limited Service	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability Service in Alcohols Service in Aromatic Hydrocarbons	Non-Compliant 6 Acceptable Service Limited Service Limited Service	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability Service in Alcohols Service in Aromatic Hydrocarbons Service in Chlorinated Solvents Service in Ethers Service in Ketones	Non-Compliant 6 Acceptable Service Limited Service Limited Service Unacceptable	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability Service in Alcohols Service in Aromatic Hydrocarbons Service in Chlorinated Solvents Service in Ethers	Non-Compliant 6 Acceptable Service Limited Service Limited Service Unacceptable Unacceptable	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability Service in Alcohols Service in Aromatic Hydrocarbons Service in Chlorinated Solvents Service in Ethers Service in Ketones Service in Strong Acids Service in Strong Alkalies	Non-Compliant 6 Acceptable Service Limited Service Limited Service Unacceptable Unacceptable Limited Service	200	1/8 inch
Maximum Service Temperature, Air Flammability, UL94 (Estimated Rating) Qualitative Processing Properties Compliance - FDA Machinability Service in Alcohols Service in Aromatic Hydrocarbons Service in Chlorinated Solvents Service in Ethers Service in Ketones Service in Strong Acids	Non-Compliant 6 Acceptable Service Limited Service Limited Service Unacceptable Unacceptable Limited Service Acceptable Service	200	1/8 inch

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