

	Corzan CPVC	Vintec Clear	Vintec I	Vintec II
<b>Physical</b>				
Density (g/cm <sup>3</sup> )	1.47	1.4	1.42	1.35
Absorption	0.03	<0.07	.15-.3	0.16
Hardness, Shore D	-	80	89	85
Rockwell Hardness (R Scale)	116	115	115	106
Cell Class	24446-B	-	12454-B	16444-D
<b>Mechanical</b>				
Tensile Strength @ Yield (psi)	7300	426,000	411000	396,000
Flexural Strength	14,300	-	-	-
Yield Strength (psi)	-	7,500	12800	7,400
Flexural Modulus (psi)	361,00	480,000	481000	400,000
Yield Strength (psi)	-	12,000	12800	10,000
Compressive Strength	10,100	-	-	-
Compressive Modulus	196,000	-	-	-
Notched Izod Impact (ft-lb/in)	9	0.9	1	18
<b>Thermal</b>				
Vicat Softening Point (°C)	198	82/179	83/181	83/181
Heat Deflection Temperature @ 66 psi (°C)	-	74/165	82/179	82/179
Heat Deflection Temp (264 psi) (°C/°F)	-	86/154	80/176	80/176
Coefficient of Linear Thermal Expansion (ln./ln.°C)	3.86x10 <sup>-5</sup>	6.7 x 10 <sup>-5</sup>	5.8 x 10 <sup>-5</sup>	6.3 x 10 <sup>-5</sup>
Coefficient of Linear Expansion (in/in/°F)	-	3.7 x 10 <sup>-5</sup>	3.2 x 10 <sup>-5</sup>	3.5 x 10 <sup>-5</sup>
Thermal Conductivity (W/mK)	0.95	-	-	-
<b>Flammability Ratings</b>				
Flame Spread Index	15	Class 1	20	15
Flammability	0.062"	0	-	0
Flammability	-	Self Extinguishing	-	Self Extinguishing
Vertical Burn Test	-	-	5-V	-
Foam Fire Test	-	-	Passed / Classified	-
Limiting Oxygen Index	60%	-	-	-
<b>Chemical</b>				
Chemical Resistance	-	Class B	Class B	Class D
<b>Electrical</b>				
Electrical Volume Resistivity (Ohm/cm)	3.4x10 <sup>15</sup>	6.0 x 10 <sup>-5</sup>	5.4 x 10 <sup>15</sup>	6.0 x 10 <sup>15</sup>
Dielectric Constant (60 Hz)	3.7	-	3.9	3.03
Power Factor	0.01%	-	-	-
Dissipation Factor (60 Hz)	-	-	0.0096	0.0083
Loss Index (60 Hz)	-	-	0.03	0.025
Dielectric Strength (Volts / mil)	1250	-	544	645



801 Corey Street, Scranton, PA 18505

Phone: 1.800.235.8320

Fax: 1.800.858.9266

Website: [www.vycomplastics.com](http://www.vycomplastics.com)

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	<b>Protec HP</b>	<b>Protec CoPP</b>	<b>Hitec HDPE</b>
<b>Physical</b>			
Density (g/cm <sup>3</sup> )	0.9	0.9	0.960 +
Absorption	Max.01%	Max.0.01%	Max 0.01%
Hardness, Shore D	78	72	69
<b>Mechanical</b>			
Tensile Strength @ Yield (psi)	4,900	3,500	4,600
Flexural Modulus (psi)	190,000	145,000	225,000
Notched Izod Impact (ft-lb/in)	0.9	17	120
Elongation at Yield (%)	9	10	>600
<b>Thermal</b>			
Vicat Softening Point (°C)	305	298	129
Heat Deflection Temperature @ 66 psi (°C)	210	86	82
Coefficient of Linear Thermal Expansion (In./In.°C)	6.5x10 <sup>-5</sup>	6.5x10 <sup>-5</sup>	6 x 10 <sup>-5</sup>
Maximum Service Temperature, Air (°C)	180	180	180 F
Low Temperature Brittleness F <sub>50</sub>	-	-	<-76
Melt Index (g/cm <sup>3</sup> )	0.5	0.5	0.8
<b>Flammability Ratings</b>			
Flammability Rating	UL94 HB	UL94 HB	UL94 HB
<b>Chemical</b>			
Compliances (VO)	FDA, USDA, NSF* ( natural only)	FDA, USDA, NSF* ( natural only)	FDA, USDA, NSF*

Effective Date: 1/1/2016


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