



# Technical Data Sheet PC

## Yazd polymer

<b>I. Physical Properties</b>	<b>value</b>	<b>Test method</b>	<b>Unit</b>	
1. Specific gravity	1.20	ASTM D792	g/cm <sup>3</sup>	
2. Water saturation	0.4	ASTM D570	%	
3. Water equilibrium (50% RH)	0.15	ASTM D570	%	
4. Maximum permissible service temp.	250	UL 746B	°F	
5. Lower permissible service temp.	-	UL 746B	°F	
<b>II. Mechanical Properties</b>				
1. Tensile strength at yield	10.500	ASTM D638	psi	
2. Elongation at yield.	-	ASTM D638	%	
3. Tensile strength at break	-	ASTM D638	psi	
4. Elongation at break	100	ASTM D638	%	
5. Impact strength	n.b.	ASTM D256	ft-lb/in	
6. Notch impact strength	1.6	ASTM D256	ft-lb/in	
7. Ball indentation / Rockwell hardness	-	ASTMD785	psi	
8. Shore-D	83	ASTMD2240	-	
9. Flexural strength	13.000	ASTM D638	psi	
10. Modulus of elasticity	320.000	ASTM D638	psi	
<b>II. Thermal Properties</b>				
1. Vicat-softening point	VST/B/50	-	ASTMD1525	°F
	VST/A/50	-	ASTMD1525	°F
2. Heat deflection temperature	HDT/B	-	ASTM D648	°F
	HDT/A	176	ASTM D648	°F
3. Coefficient of linear thermal expansion	3.9	ASTM D696	in/in/°F×10 <sup>-5</sup>	
4. Thermal conductivity at 20°C	1.29	ASTM C177	BTU/hr-ftx°F	
5. Glass transition temperature	290	ASTMD3418	°F	
6. Melting temperature	290	ASTMD3418	°F	
<b>IV. Electrical Properties</b>				
1. Volume resistivity	10 <sup>13</sup>	ASTMD257	Ω×cm	
2. Surface resistivity	10 <sup>13</sup>	-	Ω/SQ	
3. Dielectric constant at 1MHz	3.17	ASTM D150	-	
4. Dielectric loss factor at 1 MHz	0.0009	-	-	
5. Dielectric strength	398	ASTM D149	V/mil	
6. Tracking resistance	-	IEC 60112	Grade	
<b>V. Additional Data</b>				
1. Bond ability	Yes	-	-	
2. Physiological indifference	No / No	FDA/ NSF	-	
3. Flammability	HB	UL 94	-	
4. UV stabilization	No	-	-	