



Technical Data Sheet PP

Yazd polymer

I. Physical Properties		PP 30G	PP- C	PP- H	Test method	Unit
1. Specific gravity		1.14	0.9	0.9	ASTM D792	g/cm ³
2. Water saturation		-	-	0.2	ASTM D570	%
3. Water equilibrium (50% RH)		-	-	0.02	ASTM D570	%
4. Maximum permissible service temp.		212	190	212	UL 746B	°F
5. Lower permissible service temp.		41	-22	41	UL 746B	°F
II. Mechanical Properties						
1. Tensile strength at yield		-	4.060	4.900	ASTM D638	psi
2. Elongation at yield.		-	11	9	ASTM D638	%
3. Tensile strength at break		12,300	-	-	ASTM D638	psi
4. Elongation at break		3	-	70	ASTM D638	%
5. Impact strength		6.5	-	n.b.	ASTM D256	ft-lb/in
6. Notch impact strength		1.8	n.b.	1.3	ASTM D256	ft-lb/in
7. Ball indentation / Rockwell hardness		16,000	80	-	ASTMD785	psi
8. Shore-D		85	-	76	ASTMD2240	-
9. Flexural strength		17,400	-	-	ASTM D638	psi
10. Modulus of elasticity		943,000	162.000	200.000	ASTM D638	psi
II. Thermal Properties						
1. Vicat-softening point	VST/B/50	320	-	194	ASTMD1525	°F
	VST/A/50	266	-	302	ASTMD1525	°F
2. Heat deflection temperature	HDT/B	311	190	4	ASTM D648	°F
	HDT/A	284	124	130	ASTM D648	°F
3. Coefficient of linear thermal expansion		-	-	8	ASTM D696	in/in/°F×10 ⁻⁵
4. Thermal conductivity at 20°C		1.9	-	-	ASTM C177	BTU/hr-ft×°F
5. Glass transition temperature		-	-	50	ASTMD3418	°F
6. Melting temperature		-	-	329	ASTMD3418	°F
IV. Electrical Properties						
1. Volume resistivity		10 ¹⁴	-	-	ASTMD257	Ω×cm
2. Surface resistivity		10 ¹³	-	10 ¹³		Ω/SQ
3. Dielectric constant at 1MHz		2.6	-	-	ASTM D150	-
4. Dielectric loss factor at 1 MHz			-	-		-
5. Dielectric strength		1.015	-	1.015	ASTM D149	V/mil
6. Tracking resistance		600	-	-	IEC 60112	Grade
V. Additional Data						
1. Bond ability		yes	Yes	Yes	-	-
2. Physiological indifference		no	Yes/no	Yes/no	FDA	-
3. Flammability		no	HB	HB	NSF	-
4. UV stabilization		HB	No	No	UL 94	-