

## Technical Data Sheet PP

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 <sup>3</sup>	
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	-21	41	UL 746B	°F	
<b>II. Mechanical Properties</b>						
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	
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	
<b>III. Thermal Properties</b>						
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 <sup>-5</sup>	
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	
<b>IV. Electrical Properties</b>						
1. Volume resistivity	10 <sup>14</sup>	-	-	ASTMD257	Ω×cm	
2. Surface resistivity	10 <sup>13</sup>	-	10 <sup>13</sup>	-	Ω/SQ	
3. Dielectric constant at 1MHz	2.6	-	-	ASTM D150	-	
4. Dielectric loss factor at 1 MHz	-	-	-	-	-	
5. Dielectric strength	1.015	-	1.0 15	ASTM D149	V/mil	
6. Tracking resistance	600	-	-	IEC 60112	Grade	
<b>V. Additional Data</b>						
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	-	

+98-2166698027  
+98-2166698089

www.bazargani-falahati.com  
info@bazargani-falahati.com

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