

## **Typical Product Properties**

## PORON® AguaPro™ 4701-41 Soft – Enhanced Sealability- Data Sheet

Tolerance, %  Thickness, mm (inches) Tolerance, %  Standard Color (Code)  Compression Force Deflection, kPa (psi) Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  AS Test	STM D 3574-95, Test A								
Tolerance, %  Thickness, mm (inches)     Tolerance, %  Standard Color (Code)  Compression Force Deflection, kPa (psi)     Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  AS Test	STM D 3574-95, Test A	1	PHYSICAL						
Thickness, mm (inches) Tolerance, %  Standard Color (Code)  Compression Force Deflection, kPa (psi) Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  Test	<b>!</b>	240 (15)	320 (20)	480 (30)					
(inches) Tolerance, %  Standard Color (Code)  Compression Force Deflection, kPa (psi) Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  AS Test		± 10							
Tolerance, %  Standard Color (Code)  Compression Force Deflection, kPa (psi)  Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  AS  Test		4.78 – 12.70	1.57 – 3.18	0.79 – 1.14					
Standard Color (Code)  Compression Force Deflection, kPa (psi)  Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  Test		(0.188-0.500)	(0.062- 0.125)	(0.031-0.045)					
Compression Force Deflection, kPa (psi) Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  AS Test		± 10 ± 20							
(psi) For Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  AS  Test		Black (04)							
Typical, kPa (psi)  Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  Test AS  Test AS	51 cm/min (0.2" / min.) Strain Rate	41 – 83	76 – 138	138 – 317					
Hardness, Durometer, Shore "O"  Compression Set, % max. after 24 hour recovery  AS  Tes  AS	orce Measured @ 25% Deflection	(6 – 12)	(11 – 20)	(20 – 46)					
Compression Set, % max. after 24 AS hour recovery AS Tes		64 (9.3)	103 (15)	193 (28)					
hour recovery Test AS Test AS	STM D 2240-97	18	24	55					
AS Tes	STM D 3574-95	5							
Te:	est D @ 23°C (73°F)								
AS	STM D 3574-95	10							
	est D @ 70°C (158°F)								
l e e e e e e e e e e e e e e e e e e e	STM D 3574-95 Test J/Test D	5							
au	itoclaved 5 hrs @ 121°C (250°F)								
Dimensional Stability, % max. change 22	hrs @ 80°C (176°F) in a forced-air oven	± 2							
Tensile Strength, min. kPa (psi) AS	STM D 3574-75 Test E	276 (40)	517 (75)	827 (120)					
Tensile Elongation, % min. AS	STM D 3574-75 Test E	100	100	100					
Tear Strength, Min. kN/m (pli), AS	STM D 264-91 Die C	1.1 (6)	1.4 (8)	2.6 (15)					
Typical kN/m (pli)		1.8 (10)	2.3 (13)	3.2 (18)					
ELECTRICAL AND THERMAL									
	STM D 150 measurements at 22°C 2°F) relative humidity 50% for 24 hrs.	1.71							
Dielectric Strength, kVm (volts/mil) AS	STM D 149-97a	1969 (50)							
Dissipation Factor, tan D ("DF") AS	STM D 150-98	0.05							
Volume Resistivity, ohm-cm AS	STM D 257-99	1 x 10 <sup>12</sup>							
Surface Resistivity, ohm/sq. AS	STM D 257-99	2 x 10 <sup>12</sup>							
Thermal Conductivity, W/m-C AS (BTU-in./hr/ft²-F)	STM C 518-98	-	-	-					
Coefficient of Thermal Expansion									

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## PORON® AquaPro™ 4701-41 Soft – Enhanced Sealability, Continued

PROPERTY	TEST METHOD		VALUE		
TEMPERATURE RESISTANCE					
Recommended Constant Use, max.	SAE J-2236	90°C (194°F)			
Recommended Intermittent Use, max.		121°C (250°F)			
Embrittlement	ASTM D 746-98	-			
Cold Flexibility	MIL-P-12420D 1991 @ -40°C (-40°F)	Pass			
FLAMMABILITY AND OUTGASSING					
Flammability, mm (inches)	UL 94HBF (File E20305) (Pass ≥) MVSS 302 (Pass ≥) CSA Comp HBF (File 188149) (Pass ≥)	4.8 (0.188) - -			
Fogging	SAE J-1756 3 hrs @ 100°C (212°F)	-			
Outgassing, Total Mass Loss (TML) %	ASTM E 595-93 24 hrs @ 125°C (257°F) @ <7x10³ Pa	0.84	0.97	1.0	
Outgassing, Collected Volatile Condensable Materials (CVCM) %		0.05	0.04	0.06	
Outgassing, Water Vapor Regain (WVR) %		0.4	0.46	0.65	
ENVIRONMENTAL					
Gasketing and Sealing	UL JMST2 (Consisting of UL50 and UL508) CAN/CSA – C22.2 No. 94-M91	File MH15464 File 188149			
Moisture Absorption, High Humidity Exposure, % weight gain, typical	AMS 3568-95	3			
Water Absorption, Immersion Testing, % weight gain, typical	ASTM D 570-95	15	13	6	
UV Resistance	ASTM G 53-96	-			
Ozone Resistance	GM 4486P-95	-			
Corrosion Resistance	AMS 3568-91	-			
Mildew/Bacteria Resistance	ASTM G 21	Good			
Staining	ASTM D 925	No Stain			
Skin Contact Irritation	Primary Skin Irritation Test (FHSA)	Pass			

## Notes:

- - Represents testing not available at this time.
- All metric conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.



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