Tech-How Make the Difference!



Next Generation World Firstly Developed Eco-Friendly Flange Gasket Materials











ı	MATERIAL PROPERTIES		SERVICE RANGE	
Product Name	LEAKBLOK® Premium P100			
Color	Green(Black Printed)		80 - 70 -	
Composition	Aramid Fiber + NBR Binder	Ē	60	
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line	Pressure(bar)	50 — 40 — B	
Pressure	Short-term peak 60bar(870 psi)	Ě	30 — 20 —	
Temperature	Continuous -50℃(-58°F) ~ 180℃(356°F)		10 — (A)	
	Short-term peak Max 260 ℃ (500°F)		-100 -50 0 50 100 150 200 250 30])0
pH range	4-11		Temperature(°C)	
Thickness(mm)	0.8 ~ 3.2	Area Area		atibility
Size(mm)	1270(W)×1270(L), 3M~10M, 15M~20M(L) 1500(W)×1500(L), 3M~10M, 15M~20M(L)	P×T	T(Max) psi \times °F (bar \times °C) / 309,720(10,800)	
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440),	WRAS	sS, Fire Endurance Test(ISO 19921 & 19922)	

PHYSICAL PROPERTIES				
Test Method	Description	LEAKBLOK® P100		
ASTM D792	Density (g/cm³)	1.9		
ASTM F152	Tensile Strength Across grain. MPa (kgf/mm²)	10.0(1.02)		
ASTM F36	Compressibility (%)	10		
Procedure J	Recovery (%)	75		
DIN 3535 - 6	Gas permeability (ml/min)	≤ 0.01		
DIN 52913	Relaxation Stress(MPa) -50MPa 16 hours @175℃	20		
VDI 2440 (TA - Luft)	Leak rate (mbar·l /(s·m)) -at 150℃ 48 hours	2·10 ⁻⁸		

IMMERSION PROPERTIES					
Test Method ASTM F146	Description	on	LEAKBLOK® P100		
at 150 ℃×5hrs ASTM Oil no 3 at 20~30 ℃×5hr		Thickness Increase (%)			
ASTM Fuel B	Thickness	Increase (%)	7		
	Weight Inc	crease (%)	10		
GASKET DESIGN DATA					
Thickness (mm) 3.2	Gasket Factor(m) 2.00	Factor(m) Kgf/cm² (psi)			
1.6	2.75	2.75 260(3700)			

457(6500)

3.50

Innovative technology, LEAKBLOK®, absolutely distinguished from the traditional way of calendar roll production, It specially invented with environmentally friendly solvent free process.

Compare with previous product, it shows strong durability and superior at low seating stress.

Suitable for use Low pressure steam and clean line, excellent protection of fluid contamination.

- Not available with max. temperature & pressure at the same time
- Guide line only, if outside this range contact us.
- Do not re-use gaskets unless this is specifically indicated.
- Do not use gasket compounds with gasket as this will adversely affect performance.
- Please consult with JEIL's Technical team for application of steam & explosive gas line especially.

^{*} All data are 1.5mm thickness typical value.





	MATERIAL PROPERTIES		SERVICE RANGE
Product Name	LEAKBLOK® Premium P200	100	
Color	Blue(Black Printed)	90 —	
Composition	Aramid Fiber + NBR Binder	70 —	
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line	Pressure (bar) 09 — 04 — 04 — 05 — 06 — 07 — 08 — 08 — 08 — 08 — 08 — 08 — 08	B
Pressure	Short-term peak 80bar (1160 psi)	30 —	A
Temperature	Continuous -50℃(-58°F) ~ 220℃(428°F)	0	
	Short-term peak Max 350°C (660°F)	-100 -50	0 50 100 150 200 250 300 350 400 Temperature(°C)
pH range	4-11	Area (A)	Satisfactory area subject to chemical compatibility
Thickness	0.8 ~ 3.2(mm)	Area (B)	Usually suitable but required technical recommend by JEIL Technical team
Size	1270(W)×1270(L), 3M~10M, 15M~20M(L) 1500(W)×1500(L), 3M~10M, 15M~20M(L)	P×T(Max)	psi ×°F(bar×°C) / 496,480(17,600)
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440), Fire Endurance Test(ISO 19921 & 19922)	WRAS, BS 7531 Grade	e Y

PHYSICAL PROPERTIES			IMMERSION PROPERTIES			
Test Method	Description	LEAKBLOK® P200	Test Method ASTM F146	Description	า	LEAKBLOK® P200
ASTM D792	Density (g/cm ³)	1.9	at 150℃×5hrs			
ASTM F152	Tensile Strength Across grain.MPa (kgf/mm²)	15.0(1.53)	ASTM Oil no 3	Thickness I	Increase (%)	3
ASTM F36	Compressibility (%)	9	at 20~30 ℃ ×5hrs			
Procedure J	Recovery (%)	71	ASTM Fuel B	Thickness I	Increase (%)	6
DIN 3535 -6 DIN 52913	Gas permeability (ml/min) Relaxation Stress(MPa)	≤ 0.01		Weight Increase (%)		9
DIN 52913	- 50MPa 16 hours @175℃	38.2		GASKET	DESIGN DATA	
BS 7531	Relaxation Stress(MPa) - 40MPa 16 hours @300°C	23.7	Thickness (mm)	Gasket Factor(m)	Min. Design Se Kgf/cm	•
VDI 2440	Leak rate		3.2	2.00	112(1	600)
(TA - Luft)	(mbar·l /(s·m))	2·10 ⁻⁸	1.6	2.75	260(3	700)
	-at 150°C 48 hours		0.8	3.50	457(6	500)

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MATERIAL PROPERTIES		SERVICE RANGE				
Product Name	LEAKBLOK® Premium P300	100				
Color	Silver(Black Printed))	90 —				
Composition	Aramid Fiber + SBR Binder	70 — (g) 60 —				
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line	Pressure (bar) 8				
Pressure	Short-term peak 80bar (1160 psi)	30 — 20 — 10 —				
Temperature	Continuous -50 ℃ (-58°F) ~ 220 ℃ (428°F)	-100 -50 0 50 100 150 200 250 300 350 400				
	Short-term peak Max 350°C (660°F)	Temperature(°C)				
pH range	4-11	Area (A) Satisfactory area subject to chemical compatibility				
Thickness	0.8 ~ 3.2(mm)	Area (B) Usually suitable but required technical recommend by JEIL Technical team				
Size	1270(W)×1270(L), 3M~10M, 15M~20M(L) 1500(W)×1500(L), 3M~10M, 15M~20M(L)	P×T(Max) psi ×°F(bar×°C) / 496,480(17,600)				
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440), Fire Endurance Test(ISO 19921 & 19922)	WRAS, BS 7531 Grade Y				

PHYSICAL PROPERTIES				
Test Method	Description	LEAKBLOK® P300		
ASTM D792	Density (g/cm³)	1.9		
ASTM F152	Tensile Strength Across grain.MPa (kgf/mm²)	15.0(1.53)		
ASTM F36	Compressibility (%)	9		
Procedure J	Recovery (%)	73		
DIN 3535-6	Gas permeability (ml/min)	≤ 0.01		
DIN 52913	Relaxation Stress(MPa) - 50MPa 16 hours @175℃	37.6		
BS 7531	Relaxation Stress(MPa) - 40MPa 16 hours @300℃	23.8		
VDI 2440 (TA - Luft)	Leak rate (mbar·l /(s·m)) -at 150℃ 48 hours	2·10-8		

IMMERSION PROPERTIES					
Test Method ASTM F146	Description	Description			
at 150 °C×5hrs ASTM Oil no 3	Thickness Increase (%)		10		
at 20~30 ℃×5hrs					
ASTM Fuel B	Thickness Increase (%)		10		
	Weight Inc	Weight Increase (%)			
	GASKE	T DESIGN DATA			
Thickness	Gasket	Min. Design Sea	ating Stress(y)		
(mm) I	Factor(m)	Kgf/cm	2(psi)		
3.2	2.00	2.00 112(1600)			
1.6	2.75 260(3700)				

457(6500)

3.50

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	MATERIAL PROPERTIES	SERVICE RANGE
Product Name	LEAKBLOK® Premium P400	110 ¬
Color	Brown(Black Printed))	100 — 90 —
Composition	Aramid Fiber + NBR Binder	80 — Ge 70 —
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line	B B
Pressure	Short-term peak 100bar (1450 psi)	30
Temperature	Continuous $-50^{\circ}\text{C}(-58^{\circ}\text{F}) \sim 260^{\circ}\text{C}(500^{\circ}\text{F})$ Short-term peak	-100 -50 0 50 100 150 200 250 300 350 400 450 500 Temperature(°C)
	Max 430 ℃ (806°F)	Area (A) Satisfactory area subject to chemical compatibility
pH range	4-11	Area (B) Usually suitable but required technical
Thickness	0.8 ~ 3.2(mm)	recommend by JEIL Technical team
Size	1270×1270, 1500×1500 (mm)	P×T(Max) psi ×°F(bar×°C) / 725,000(26,000)
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440), Fire Endurance Test(ISO 19921 & 19922)	WRAS, BS 7531 Grade X

PHYSICAL PROPERTIES			IMMERSION PROPERTIES			
Test Method	Description	LEAKBLOK® P400	Test Method ASTM F146	Description	1	LEAKBLOK® P400
ASTM D792	Density (g/cm ³)	1.9	ACTIVITIES			1 100
ASTM F152	Tensile Strength		at 150℃×5hrs			
ASTIVITISE	Across grain. MPa (kgf/mm ²)	16.7(1.70)	ASTM Oil no 3	Thickness	ncrease (%)	4
ASTM F36	Compressibility (%)	8				
Procedure J	Recovery (%)	63	at 20~30℃×5hrs			
DIN 52913	Relaxation Stress(MPa)		ASTM Fuel B	Thickness	ncrease (%)	1
DIN 52913	- 50MPa 16 hours @300℃	38.2		Thickness	ncrease (%)	4
BS 7531	Relaxation Stress(MPa)			GASKET	DESIGN DATA	4
20 7001	- 40MPa 16 hours @300℃	25.1	Thickness	Gasket	Min. Design Se	eating Stress(y)
DIN 3535 -6	Gas permeability (ml/min)	≤ 0.01	` '	Factor(m)	•	m² (psi)
D	, , , ,	_ 0.0 .	3.2	2.00	112(1600)
VDI 2440	Leak rate	2·10-8	1.6	2.75	260(3700)
(TA - Luft)	(mbar·l /(s·m)) - at 150°C 48 hours	2.10 。	0.8	3.50	457(6500)

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L ower Costs for Client (Time/Process/Handle etc)

E co-Friendly for Client's Purpose

A ggressive Sales with LEAKBLOK®

K eeping Workshop Clean & Tiny

B esides, Make your Plants SAFE

L eading the Market with LEAKBLOK®

O bvious way to get good Productivities

K orean Origin from JEIL's TECH Support

