



NO EDGE DEFINED, ALL EDGE REFINED.

Assesses fender performance solely under extreme conditions.

FENDER-EDGE PneumaCell

Rubber Material Specifications

FENDER-EDGE's **PneumaCell** is expertly designed and manufactured with superior quality, durable materials. We aim to fully unleash pneumatic fender's strength, ensuring it maintains excellent performance even under extreme operating conditions.



Outer Rubber Specifications

TEST ITEM	OUTER RUBBER SEPC.	TEST METHODS
1.Before Aging	-	-
1.1 Tensile Strength	18 Mpa or More	ISO 37:2011
1.2 Elongation	400% or More	ISO 37:2011
1.3 Hardness	60±10 (Durometer Hardness Type A)	ISO 7619-1:2010
2.After Aging	Air Oven Aging, 70°C±1°C 96h	ISO 188:2011
2.1 Tensile Strength	Not Less than 80% of the original property	ISO 37:2011
2.2 Elongation		ISO 37:2011
2.3 Hardness	Not to exceed the original property by more than 8	ISO 7619-1:2010
3.Tear	400N/cm or More	ISO 34-1:2010
4.Compression	30% (70±1°C, 22hours) or less	ISO 815-1:2008
5.Static Ozone Aging Test	No Cracks after elongation by 20% and exposure to 50 pphm ^a at 40°C for 96h	ISO 1431-1:2012

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Inner Rubber Specifications

TEST ITEM	INNER RUBBER SEPC.	TEST METHODS
1.Before Aging	-	-
1.1 Tensile Strength	10 Mpa or More	ISO 37:2011
1.2 Elongation	400% or More	ISO 37:2011
1.3 Hardness	50±10 (Durometer Hardness Type A)	ISO 7619-1:2010
2.After Aging	Air Oven Aging, 70°C±1°C 96h	ISO 188:2011
2.1 Tensile Strength	Not Less than 80% of the original property	ISO 37:2011
2.2 Elongation		ISO 37:2011
2.3 Hardness	Not to exceed the original property by more than 8	ISO 7619-1:2010
3.Tear	No requirement	ISO 34-1:2010
4.Compression	No requirement	ISO 815-1:2008
5.Static Ozone Aging Test	No requirement	ISO 1431-1:2012

Note: The above data outlines the Minimum Performance Requirements for rubber materials established by FENDER-EDGE.