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UNI EN ISO 9001:2008

PRODUCT DATA SHEET : Blueflex Diaphragms

Description :
Pump diaphragms

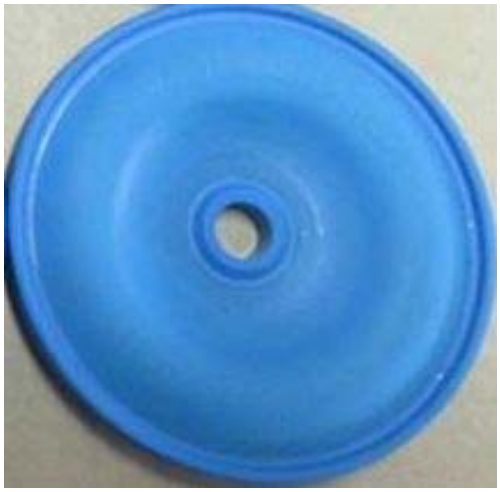
Transformation technology : Extrusion and Injection Moulding

Material : Patented [TPV compound].

Density : ASTM D 792 – 0.98 g/cm^3.
Hardness : ASTM D 2240 – 77 Shore A
Tear Strength without notch : ASTM D 624 – 32 KN/m
Tensile Modulus 100% elongation : ASTM D 638 – 3.1 Mpa
Tensile Modulus 300% elongation : ASTM D 638 – 5.0 Mpa
Tensile Strength : ASTM D 638 – 7.0 Mpa
Elongation at break : ASTM D 638 – 408 %

Color : Light blue

Shape : Circular disc with the inner and outer edge sealing.



Function : This diaphragm is used with the function of elastic seal element of separation between the mechanical components in an oil bath of the pump and the hydraulic circuit that contains the pumped liquid. The outer edge guarantees the seal towards the outside of the pump. The inner edge, when tight between the retaining plate and the piston, create a seal which prevents the mingling of the pumped liquid with the oil inside the crankcase. The diaphragm is deformed by the alternative movement of the pistons, and its influence on the pump flow rate decreases as increasing the set pressure in the delivery circuit.

Features :

Range of temperature : -15°C ÷ 70°C

Max pressure : 70 MPa (liquid pressure), -0.25 MPa (suction pressure, normal duty), -0.5 Mpa (suction pressure, intermittent duty).

Chemical resistance : The Blueflex compound offers an excellent chemical resistance against : Sea water, Detergent solution, Soap solution, Caustic soda solution, Potassium solution, Ammonia, Sulfuric acid 96%, Nitric acid 10%, Hydrocloric acid 10%, Lactic acid 10%, Alcohols, Aldehydes/Ketones, Sodium chloride, Ethylene glycol 50% solution.