

BöttcherFlex 746

DLE Plates

Flexo printing plates for Direct Laser Engraving

Rubber plates supplied as pre-cut parts or as a roll



Special Properties

Drawing on their extensive experience in the manufacture of Flexo sleeves for the direct laser engraving process, Böttcher engineers have developed the BöttcherFlex plates.

The plates are manufactured out of a top layer of rubber on a polyester film carrier. This film carrier ensures both dimensional stability and better adhesion to the cylinder.

The top layers are based on Böttcher Compounds, which has been used successfully for years as a top layer compound for Böttcher's laser engravable flexo printing sleeves. The unique properties of the compounds make them ideal for direct laser engraving. Very fine structures can be engraved with a high engraving speed. Having excellent ink transfer properties, the plates are used in many areas of flexography, e.g. the flexible packaging market.

General Information

Manufactured exclusively by Böttcher. The compound is mixed in the Böttcher mixing plant, one of the most modern rubber mixing plants in the world. In our laboratory, we are able to test the chemical compatibility of the Böttcher compounds with any inks and solvents that are used.

If there are any questions regarding Flexo sleeves and plates, please do not hesitate to contact us.

Plate type	BöttcherFlex 746 (EPDM)		
Nominal gauge	1,14 mm (0.045")	1,70 mm (0.067")	2,54 mm (0.100")
Roll format	928 mm x approx. 10 m 1150 mm x approx. 10 m	1000 mm x approx. 10 m	1000 mm x approx. 8 m
Nominal hardness	70 Shore A Hardness of the top layer with reference to ISO 6123-1		
Material density	1,12 g/cm ²		
Colour	black		
Chemical resistance			
Alcohol (e.g. ethyl alcohol, isopropanol/IPA)	A		
Ester / Ketone (e.g. ethyl acetate, MEK)	A		
UV ink	A		
Water (50°C/95°C, 120°F/200°F)	A		
Aliphatic hydrocarbon (e.g. mineral oil, benzine, fatty acids)	C		
Aromatic hydrocarbon (e.g. toluene, benzene, xylene)	C		
Ozone	A		

A = no attack

B = slight attack

C = strongly attacked