OROFLEX™ ® *Terrain*

High Flow Extruded TPU Lay Flat Discharge Hose

Specially Designed for Frac Solution & Fresh Water Transfer	Superior Wear & Tear Resistance
Premium & Flexible Leak Free Hose with Extremely Low Friction Loss	For Extreme UV and Ozone Conditions

Color:

Black cover is the standard. Other colors are available upon request.

Applications:

Designed and recommended as a frac solution and fresh water transfer hose, liquid manure mainline drag hose, irrigation feeding line, sludge injection, dewatering, contaminated liquids/fertilizers, drinking water transport, mining, transport of compatible fluids (see chemical resistance chart), brackish and sea water and waste water transport.

Construction:

Made from circularly woven 100% high tenacity synthetic yarn, completely protected and locked-in by a tough, highly resistant thermoplastic polyurethane extruded through the weave, forming a single homogenous construction without the use of glues or adhesives. Its construction does not permit corrosion or scaling, while giving a high resistance against abrasion and cutting. Easy handling, storage & transport, which allows for fast installation and retrieval. 2% maximum hose elongation and 10% maximum hose expansion.

Lining Properties:

a. Ultimate Tensile Strength of the lining: Minimum guaranteed value of 5.800 psi (40 MPa).

b. Ultimate Elongation: 500% minimu

Lengths:

Standard lengths in 100m (330ft) and 200m (660ft). Longer lengths may be available upon request.

Abrasion Resistance:

The OROFLEX TERRAIN hose will extend the lifetime of your application when under extreme conditions, where abrasion is the main concern. Under practical conditions, thermoplastic polyurethane is considered to be the most abrasion resistant elastomeric material.

Service Temperature Range:

-50ºC (-58ºF) to 65ºC (150ºF), with peaks of up to 80ºC (175ºF). Special versions for higher and lower temperatures available upon request.

Ozone Resistance:

No visible signs of cracking will appear due to the ozone. Excellent weather and UV resistance.

Chemical Resistance:

Exposure to seawater and contamination by most chemical substances, hydrocarbons, oils and greases has no effect on the short or long term performance of the hose. A chemical resistance chart is available and TIPSA will supply specific chemical resistance data when requested by the purchaser for unique applications.

Couplings:

As requested by purchaser; Victaulic, Storz, etc.

TIPSA - Kuriyama Group · Av. de Barcelona, 20 · 08970 Sant Joan Despí / Barcelona, Spain

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Physical Properties:

Part Number	Nominal Inner Diameter		Wall Thickness		Working Pressure		Burst Pressure		Tensile Strength		Nominal Weight	
	mm	inch	mm	inch	bar	psi	bar	psi	kg	lb	kg/m	lb/ft
F556247A [1]	102	4	3.5	0.138	22	320	55	800	12,000	26,450	1.34	0.90
F556248A	152	6	4.5	0.177	22	320	55	800	29,000	63,950	2.48	1.66
F556249A	203	8	4.3	0.169	14	200	42	600	35,000	77,200	3.30	2.22
F556250A	254	10	4.5	0.177	14	200	35	500	45,000	99,200	4.10	2.80
F556251A [1]	305	12	4.7	0.185	12	175	30	435	55,000	121,300	5.10	3.43
F556258A	305	12	5.0	0.197	14	200	35	500	70,000	154,300	5.28	3.55
F556254A [1]	406	16	5.2	0.205	12	175	28	400	80,000	176,400	7.60	5.11

[1] Sizes available on minimum order quantities.

The actual diameter of these hoses may differ slightly from the nominal diameter specified in this chart to make sure that they can be properly assembled with the couplings. For diameter tolerance questions please contact your distributor or directly to TIPSA.

The OROFLEX TERRAIN hose can be specially manufactuerd and certified upon request as per the NSF/ANSI/CAN Standard 61- Drinking Water Approval.

Only products bearing the NSF Mark are Certified.

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