

Technical Data Sheet

Dräger X-plore® 4740 TPE

Air Purifying Respirator

1.0 General Data				
1.1	Manufacturer	Dräger Safety AG & Co. KGaA		
1.2	Designation	Dräger X-plore® 4740 TPE Half Mask Respirator		
1.3	Dräger Part Number	M/L: R 55 876		
	EAN Code	4026056002719		
1.4	Intended Use	Respirator for protection against particulates, gases and vapors in conjunction with suitable respiratory filters. The scope is limited by the product documentation, technical standards, installed application rules and choice of respiratory filters.		
1.5	Relevant Standards	EN 136:1998 Class 3	AS/NZS 1716:2003	GOST R 12.4.190-99
1.6	Certification Body	DEKRA EXAM GmbH Dinnendahlstr. 9 44809 Bochum Germany Reference number: CE 0158	SAI Global Assurance Services Ltd Winterhill House Snowdon Drive Milton Keynes MK6 1AX United Kingdom	VNIIS, JSC 3/10, Elektrichesky Ln. Bld. 1 Moscow 123557 Russia

2.0 Design & Construction				
2.1	Filter Connection	Thread Connector Rd 40x1/7" according to EN 148-1		
2.2	Material	Mask Body: Thermoplastic Elastomer (TPE) Mask Yoke: Polypropylene Head Cradle: Thermoplastic Elastomer (TPE) and Polypropylene Head Strap: CR/NR Inhalation Valve: Natural Rubber Exhalation Valve: Nitrile Rubber (NBR)		
2.3	Construction	The X-plore® 4740 half mask consists of six main components: mask body, mask yoke, head cradle, head straps, exhalation valve and inhalation valve. The mask body is constructed of a molded soft component. The mask yoke covers the front of the mask body and is a guide for the routing of the head straps. The head cradle utilizes a hard component for the head strap adjustment that specially bonded to a soft component that fits on crown of head. The inhalation valve is a flat disc that only allows air into the mask and the exhalation valve is of a stepped design to apply even sealing pressure that only allows air to exit the mask.		
2.4	Working Principle	The half face mask, in combination with a breathing filter, offers respiratory protection against potentially hazardous gases, vapors and/or particles. Scope and effectiveness of respiratory protection results from the combination of half mask with suitable and certified respiratory protective filters, along with following local regulations on use limitations. The sealing line on the inside of the mask body conforms to the face of the wearer along the cheeks, over the nose and under the chin. A head harness with adjustable straps firmly holds the mask onto the face. During inhalation, ambient air passes through the filter where it is "cleaned," and then into the mask. During exhalation, air passes through the exhalation valve only since the inhalation valve closes. This prevents exhaled humidity from affecting the filters and reduces "dead space."		
2.5	Sizes	Medium/Large		
2.6	Service-Life	Only certain components (e.g. exhalation valve) must be periodically replaced. See Instructions For Use for details. There are no time limitations on mask materials assuming proper storage, maintenance and cleaning as stated in IFU. Damage and wear are outside of this statement.		
2.7	Dimensions (approx.)	Height: 130mm	Width: 105mm	Depth: 71mm
2.8	Weight (approx.)	175g		

3.0 Performance	
3.1	Inhalation Resistance
	< or = 0.5 mbar @ 30 l/min constant flow < or = 1.3 mbar @ 95 l/min constant flow < or = 2.0 mbar @ 160 l/min constant flow
3.2	Exhalation Resistance
	< or = 3.0 mbar @ 160l/min constant flow
3.3	Temperature Resistance
	to EN 140 (pre-conditioned at +70°C and -30°C and t hen tested)
3.4	Flammability
	to EN 140 (exposed to 800°C flame and must not burn for > 5s after removed)
3.5	Speech Diaphragm
	n/a
3.6	Inward Leakage
	< or = 2.0% average (to EN 140)

4.0 Documentation	
4.1 Identification	- "ML" on the mask body - "Dräger X-plore 4700" on inside of mask body - "TPE" on the mask body - CE marking on mask yoke ("EN140:1998 CE 0158") - "Dräger" on head harness
4.2 Instructions	Each unit contains an instruction booklet in the following languages: English, German, French, Spanish, Portuguese, Italian, Dutch, Norwegian, Swedish, Danish, Finnish, Estonian, Lithuanian, Latvian, Polish, Russian, Slovenian, Slovakian, Czech, Hungarian, Greek, Turkish

5.0 Packaging	
5.1 Packaging	Durable, color printed carton, marked with: features, application uses, manufacturer location, use warning and relevant approvals. The closing label includes the product number, name, EAN code, control number and manufacturing location.
5.2 Packing Unit	1 Half mask per box

6.0 User Notes	
6.1 System Usability	Suitable for normal-pressure regulated powered filtering devices, normal-pressure breathing apparatus or breathing filters with threaded connection according to EN 148-1 (RA), e.g. Dräger X-plore® Rd40 filter breathing. System approvals must be taken into account if necessary for a particular region.
6.2 Limitations	This mask meets the minimum requirements according to specified standards (see label). It should be noted that laboratory test values may significantly differ from those that are achieved in practice. The user must read and understand all instructions for use. In addition, the knowledge of all relevant application rules is absolutely necessary (in particular the limits of use for masks and filter units). More information will be made available upon request.