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TECHNICAL DATA SHEET

EVOEL SM-0H

Smooth medium compression strength
Halogen-free conduits

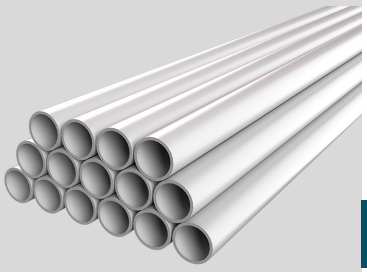
According to EN 61386-1
Classification: 33431

PRODUCT DESCRIPTION

EVOEL SM-0H is rigid, halogen-free electrical installation conduit made of a special, grey plastic. The conduit features medium mechanical resistance and is manufactured in straight 3m bars.

Material: halogen-free plastic, medium compression strength, medium impact strength, temperature resistance from –25 °C to +105 °C, non flame propagator, self-extinguishing, corrosion-resistant.

Pipes are manufactured according to EN 61386-1; EN 61386-21.



APPLICATION AREA

The conduits are recommended for safe exposed installations in industrial buildings as well as for use in engineering and anywhere with aggressive substances in the atmosphere. The conduits are specifically recommended for use in low temperatures as well as in public buildings: schools, kindergartens, hospitals, hotels, theatres, cinemas, museums, stadiums, arenas, malls, airports, railway terminals, and office buildings.

Compression strength:

750 N/5cm

Open product

PRODUCT DIMENSIONS

Nominal size	20	25	32	40	50	63
Outside OD, mm	20.0	25.0	32.0	40.0	50.0	63.0
Inside ID, mm	16.8	21.5	28.0	35.5	45.2	57.8
Bar length, m	3	3	3	3	3	3
Pack, m	111	57	57	21	21	21
On pallet, m	4440	2850	1995	1386	777	630

PRODUCT PARAMETERS

Parameter	Value	Test method
Material	SpPlas	IEC 60754-1
Combustion	Flame-retardant, self extinguishing	EN 61386-1
Impact strength, J at C°	>2J, -25 C°	EN 61386-1
Compression strength, N/5cm	>750	EN 61386-1
Temperature resistance, max/min C°	+105/-25 C°	EN 61386-1
Flexibility	Rigid	EN 61386-1

TECHNICAL DATA SHEET

EVOEL classification codes according to EN 61386-1

Codification number	Digit in the classification code									
	1		2		3		4		5	
	Compression strength		Impact strength		Minimum operating temperature t°		Maximum operating temperature t°		Flexibility	
	1	125N very low	**1**	0.5J (0.5 kg/100mm) ļoti zema	**1**	+5°C	**1**	+60°C	**1**	rigid
	2	320N low	**2**	1J (1.0 kg/100mm) zema	**2**	-5°C	**2**	+90°C	**2**	pliable
	3	750N medium	**3**	2J (2.0 kg/100mm) vidēja	**3**	-15°C	**3**	+105°C	**3**	pliable/self recovering
	4	1250N high	**4**	6J (2.0 kg/300mm) liela	**4**	-25°C	**4**	+125°C	**4**	flexible
	5	4000N very high	**5**	20.4J (6.8 kg/300mm) ļoti liela	**5**	-45°C	**5**	+150°C		
							6	+250°C		
							7	+400°C		

3 3 4 3 1

Example: electrical installation conduit with medium compression strength (3), medium impact strength (3), minimum operating temperature -25°C (4), maximum operating temperature +105°C (3), rigid (1).

STANDARTS APPLICABLE TO CONDUITS

Number	Title
EN 61386-1	Conduit systems for cable management - Part 1: General requirements.
EN 61386-21	Conduit systems for cable management - Part 21: Particular requirements. Rigid conduit systems.
EN 61386-22	Conduit systems for cable management - Part 22: Particular requirements. Pliable conduit systems.
EN 61386-23	Conduit systems for cable management - Part 23: Particular requirements. Flexible conduit systems.
EN 50267-2-2	Common test methods for cables under fire conditions - Test on gases evolved during combustion of materials from cables. Parts 2-2: Procedures. Determination of degree of acidity of gases for materials by measuring pH and conductivity.
EN 61034-2	Measurement of smoke density of cables burning under defined conditions. Part 2: Test procedure and requirements.
EN 60332-1-2	Tests on electric and optical fibre cables under fire conditions. Parts 1-2: Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame.
EN 60332-1-3	Tests on electric and optical fibre cables under fire conditions. Parts 1-3: Test for vertical flame propagation for a single insulated wire or cable. Procedure for determination of flaming droplets/particles.
EN 61386-24	Conduit systems for cable management - Part 24: Particular requirements for conduit systems buried underground.