

TECHNICAL DATA SHEET



Control No.: QC/TDS/050/20

PIPES APPLICATIONS

FOR ELECTRICAL CONDUIT AND DUCTING.

STANDARD SPECIFICATION

NEMA TC 2 EPC 80

Test Property	Specification	Test Method
Cell Designation	12454-B	ASTM D 1784
Tensile Strength	42.84 MPa	ASTM D 639
Impact Izod	>82.56 kJ/m ² of notch	ASTM D 256
Modulus of Elasticity in Tension	≥3609.94 MPa	ASTM D 639
Deflection Resistance	I.D. of the specimen shall not be less than 70% when load application	NEMA TC 2
Flattening	No cracking, no splitting, no blistering at the end when it is compressed to 60% of the diameter of the conduit	NEMA TC 2
Impact Resistance	No crack or tear penetrating the conduit shall appear in seven out of ten specimens	NEMA TC 2
Extrusion Test	No signs of flaking or surface delamination using anhydrous acetone	NEMA TC 2
Outside Diameter	Refer to the dimension specification	NEMA TC 2
Socket Diameter	Refer to the dimension specification	NEMA TC 3
Wall Thickness	Refer to the dimension specification	NEMA TC 2
Length	Refer to the dimension specification	NEMA TC 2
Heat Deflection temp. @ 1.82 MPa	158°F (70°C)	ASTM D 648
Leakage at Joints	Shall no leakage in joined specimens when subjected to internal or external pressure of 25 psi using water for 1 hour.	NEMA TC 2

Size	Outside Diameter	Wall Thickness	Length	Socket Length
1/2"	21.34 ± 0.10	3.73 + 0.51/ 0	6000 ± 10	17
3/4"	26.67 ± 0.10	3.91 + 0.51/ 0		18
1"	33.40 ± 0.13	4.55 + 0.53/ 0		22
1 1/4"	42.16 ± 0.13	4.85 + 0.58/ 0		24
1 1/2"	48.26 ± 0.13	5.08 + 0.61/ 0		27
2"	60.32 ± 0.15	5.54 + 0.66/ 0		29
3"	88.90 ± 0.20	7.62 + 0.91/ 0		40
4"	114.30 ± 0.23	8.56 + 1.02/ 0		44
6"	168.28 ± 0.28	10.97 + 1.32/ 0		54
8"	219 ± 0.38	12.70 + 1.52/ 0		124

Saudi Industries for Pipes Co.

Jeddah Commercial Centre, 3rd Floor, Al Maady Street, Corniche Al Hamra

P.O. Box 7346, Jeddah 21462, Saudi Arabia **T** +966 12 6531576 **F** +966 12 6532612

TECHNICAL DATA SHEET



Control No.: QC/TDS/103/21 2-1

PIPES APPLICATIONS

FOR ELECTRICAL CONDUIT AND DUCTING.

STANDARD SPECIFICATION

NEMA TC 2 EPC 40

Test Property	Specification	Test Method
Cell Designation	12454-B	ASTM D 1784
Tensile Strength	42.84 MPa	ASTM D 639
Impact Izod	>82.56 kJ/m ² of notch	ASTM D 256
Modulus of Elasticity in Tension	≥3609.94 MPa	ASTM D 639
Deflection Resistance	I.D. of the specimen shall not be less than 70% when load application	NEMA TC 2
Flattening	No cracking, no splitting, no blistering at the end when it is compressed to 60% of the diameter of the conduit	NEMA TC 2
Impact Resistance	No crack or tear penetrating the conduit shall appear in seven out of ten specimens	NEMA TC 2
Extrusion Test	No signs of flaking or surface delamination using anhydrous acetone	NEMA TC 2
Outside Diameter	Refer to the dimension specification	NEMA TC 2
Socket Diameter	Refer to the dimension specification	NEMA TC 3
Wall Thickness	Refer to the dimension specification	NEMA TC 2
Length	Refer to the dimension specification	NEMA TC 2
Bend	Refer to the dimension specification	NEMA TC 3
Heat Deflection temp. @ 1.82 MPa	158°F (70°C)	ASTM D 648
Leakage at Joints	Shall no leakage in joined specimens when subjected to internal or external pressure of 25 psi using water for 1 hour.	NEMA TC 2

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Size	Outside Diameter	Wall Thickness	Length	Remarks
1/2"	21.34 ± 0.10	2.77 + 0.51/ 0	6000 ± 10	17
3/4"	26.67 ± 0.10	2.87 + 0.51/ 0		18
1"	33.40 ± 0.13	3.38 + 0.51/ 0		22
1 1/4"	42.16 ± 0.13	3.56 + 0.51/ 0		24
1 1/2"	48.26 ± 0.13	3.68 + 0.51/ 0		27
2"	60.32 ± 0.15	3.91 + 0.51/ 0		29
3"	88.90 ± 0.20	5.49 + 0.66/ 0		40
4"	114.30 ± 0.23	6.02 + 0.71/ 0		44
6"	168.28 ± 0.28	7.11 + 0.86/ 0		54
8"	219 ± 0.38	8.18 + 0.99/ 0	124	

All dimensions in MM

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