



Bestellung, Fragen,
Wünsche?

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Ihr Onlineshop für Schrumpfschläuche

Technical Data Sheet

Heat Shrinkable Tubing S2451 (Black) Schrink Ratio 3:1

Dual Wall Polyolefin with adhesive, Surface Matt, No Marking

PHYSICAL PROPERTIES

EIGENSCHAFT	TESTMETHODE	ANFORDERUNG	TYPISCHER WERT
Longitudinal Change	SAE-AMS-DTL-23053	+5% to - 15%	-7%
Specific Gravity	ASTM D 792	nom. 1,10	Pass
Tensile Strength	ASTM D 638	Min. 10,4 MPa	≥ 16 MPa
Elongation at Break	ASTM D 638	Min. 200%	≥ 350%
Secant Modulus	ASTM D 882	Max. 173 MPa	65 MPa

THERMAL PROPERTIES

Operating Temperature	Life-Curve	-55 up to 110°C	-55 up to 110°C
Min. Shrink Temperature	Shrink curve	full recovery	110°C
Heat Shock (225°C x 4h)	SAE-AMS-DTL-23053	no crack, flowing or dripping (outer wall)	Pass
Elongation after heat ageing (175°C x 168h)	SAE-AMS-DTL-23053	Min. 100%	220%
Cold Impact (-55°C)	SAE-AMS-DTL-23053	no cracking	Pass
Copper Corrosion (121°C x 16h)	SAE-AMS-DTL-23053	no corrosion	Pass
Colour stability (175°C x 24h)	SAE-AMS-DTL-23053	no change	Pass

CHEMICAL PROPERTIES

Flammability	ASTM D 2671 (B)	Max. 60 seconds	Pass
Water Absorption	ASTM D 570	Max. 1,0%	0,30%

ELECTRICAL PROPERTIES

Voltage Rating			600V
Dielectric Voltage Withstand (2.5kV x 60s)	UL 224	no breakdown	Pass
Volume Resistivity	ASTM D 876	Min. $10^{12} \Omega \cdot \text{cm}$	≥ $10^{13} \Omega \cdot \text{cm}$
Dielectric Strength	ASTM D 876	Min. 11,8 kV/mm	≥ 20 kV/mm



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BEFORE SHRINKAGE		AFTER SHRINKAGE	
Inner diameter (EID) min. [type]	[mm]	Inner diameter (RID) max. [mm]	Wall thickness (RWT) min- max [mm]
3/1	3,2	0,6	nom. 0,95 (0,35)
4,5/1,5	4,8	1,5	nom. 1,10 (0,60)
6/2	6,4	2,0	nom. 1,20 (0,65)
9/3	9,5	3,0	nom. 1,30 (0,65)
12/4	12,7	4,0	nom. 1,40 (0,75)
19/6	19	6,0	nom. 1,80 (0,80)
24/8	24	8,0	nom. 2,50 (1,00)
40/13	40	13,0	nom. 2,50 (1,00)