

Karina 809D48/1-C-IS-LMP Black PVC Compound

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Extruded

Material Notes:

Heavy metal free PVC compound recommended for extrusion of coaxial cables jacket. Also recommended for extrusion of automotive flexible tube. Working temperature range: -40°C to +80°C. Information provided by Karina Indústria e Comércio de Plásticos Ltda.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Karina-809D481-C-IS-LMP-Black-PVC-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 - 1.39 g/cc	1.33 - 1.39 g/cc	NBR NM-IEC 60811-1-3
ASTM Color	-1.04 - 0.56	-1.04 - 0.56	Color B, ME 12
	-0.770 - 0.83	-0.770 - 0.83	Color A, ME 12
	25.1 - 26.7	25.1 - 26.7	Color L, ME 12

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78 - 82	78 - 82	NBR 7456
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength	>= 12.6 MPa	>= 1820 psi	NBR NM-IEC 60811-1-1
	>= 12.6 MPa	>= 1820 psi	After 168H in Air Oven at 100°C; NBR NM-IEC 60811-1-2
Elongation at Break	>= 125 %	>= 125 %	NBR NM-IEC 60811-1-1
	>= 125 %	>= 125 %	After 168H in Air Oven at 100°C; NBR NM-IEC 60811-1-2

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	80.0 °C	176 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Brittleness Temperature	<= -40.0 °C	<= -40.0 °F	ASTM D 746
Flame Spread	<= 1.00 mm/min	<= 0.0394 in/min	ISO 3795
Oxygen Index	>= 25 %	>= 25 %	NBR 6245

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	<= 0.0050 %	<= 0.0050 %	IEC 62321

Chromium, Cr Component Elements Properties	$\leq 0.010\%$ Metric	$\leq 0.010\%$ English	IEC 62321 Comments
Lead, Pb	$\leq 0.010\%$	$\leq 0.010\%$	IEC 62321
Mercury, Hg	$\leq 0.010\%$	$\leq 0.010\%$	IEC 62321

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00e+13$ ohm-cm	$\geq 1.00e+13$ ohm-cm	NBR 5403

Descriptive Properties	Value	Comments
Application	General Purpose Hoses	
Bromine, Br (%)	< 0.01	IEC 62321
Maximum Variation of Elongation (%)	25	NBR NM-IEC 60811-1-2
Maximum Variation of Tensile Strength (%)	25	NBR NM-IEC 60811-1-2

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