

Cable PVC compounds



Technical properties:

GOST, TU	GOST 5960-72				TU 6-01-1328-86
	E40-13A, formulation 8/2		O-40, formulation OM-40		NGP 30-32
	Top grade	First grade	Top grade	First grade	
Appearance	Granules of natural color		Granules of black, white, snow white and natural color		Granules of black color
Amount of foreign inclusions (about 0.5 mm), ea., maximum	24	29	Not rated		Not rated
Volume resistivity at 20°C, Ohm × cm, minimum	5×10 ¹³	3×10 ¹³	5×10 ¹⁰	1×10 ¹⁰	3×10 ¹¹
Volume resistivity at 70°C, Ohm × cm, minimum	1×10 ¹¹		Not rated		Not rated
Breaking strength, MPa (kgf/cm ²), minimum	19.6 (200)	17.6 (180)	(120)	(110)	14.0
Elongation at fracture, %, minimum	250	200	300	280	250
Brittleness temperature, °C, maximum	Minus 40		Minus 40		Minus 30
Mass loss at 160°C during 6 hours, %, maximum	2.0		3.0		2.0
Light resistance at 70°C, hours, minimum	1000		2000	1500	1500
Flammability: method A, s, maximum	15	30	15	30	Not rated
Flammability by oxygen index, %, minimum	Not rated		Not rated		32
Hardness at 20°C, MPa (kgf/cm ²)	Minimum 1.56-2.15 (16-22)	Minimum 1.47 (15)	Maximum 0.88-1.96 (9-20)		1.3-2.0
Hardness at 70°C, МПа (kgf/cm ²)	Minimum 0.78-1.17 (8-12)	Minimum 0.68 (7)	Maximum 0.58-1.17 (6-12)		0.5-1.0
Water saturation, %, maximum	0.20	0.26	0.40	0.45	0.25
Softening temperature, °C	180±10		170±10		Not rated
Density, g/Sm ³	1.28-1.32		Maximum 1.4		Maximum 1.5
Tear strength, kN/m (kgf/cm), minimum	Not rated		44.1 (45)	39.2 (40)	Not rated
Color stability in weatherometer at 70 °C, hour, minimum	96		96		Not rated
Retention of elongation at fracture after exposure at (100±2) °C, for 7 days, %, minimum	80		80		85
Shore A hardness, ea., scale, minimum	Not rated		Not rated		75

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