

Component - Plastics

E45329

Guide Information

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EUROPE - RESIN, PLASTICSLAAN 1, BERGEN OP ZOOM 4612 PX NL

420SE0(f2)(w)(GG)(rr2)

Polybutylene Terephthalate (PBT) "Valox", furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI	HA1	RTI Elec (°C)	RTI Imp (°C)	RTI Str (°C)
ALL	0.40	V-2	-	-	75	75	75
	0.50	V-2	4	0	75	75	75
	0.71	V-0	4	0	130	130	140
	0.75	V-0	3	0	130	130	140
	1.0	V-0	3	0	130	130	140
	1.5	V-0	2	0	130	130	140
	2.0	V-0, 5VA	2	0	130	130	140
	3.0	V-0, 5VA	0	0	130	130	140

Comparative Tracking Index (CTI): 3

Dielectric Strength (kV/mm): 27

High-Voltage Arc Tracking Rate (HVTR): 4

Dimensional Change (%): 0

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10^x ohm-cm): 15Surface Resistivity (10^x ohms/square): -

High Volt, Low Current Arc Resis (D495): 6

(GG) - Denotes a global grade formulation previously in File E161759.

(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

(rr2) - Virgin and regrind up to 50% by weight inclusive

(w) - Recognition includes the use of surface dyes.

NOTE - Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or a numeric/alpha combination.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10, IEC 60695-11-20	Class (color)	0.40	V-2 (ALL)
			0.50	V-2 (ALL)
			0.71	V-0 (ALL)
			0.75	V-0 (ALL)
			1.0	V-0 (ALL)
			1.5	V-0 (ALL)
			2.0	V-0, 5VA (ALL)
			3.0	V-0, 5VA (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	0.75	960
			1.0	960
			1.5	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	0.75	700
			1.0	700
			1.5	700
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	CTI175
IEC AC Dielectric Strength (AC DS)	IEC 60243-1	Material Group	-	IIla
IEC DC Dielectric Strength (DC DS)	IEC 60243-2	kV/mm	-	-
IEC Volume Resistivity (VR)	IEC 62631-3-1	kV/mm	-	-
IEC Surface Resistivity (SR)	IEC 62631-3-2	10 ^x ohm-m	-	-
IEC Inclined Plane Tracking (IPT)	IEC 60587	10 ^x ohms	-	-
IEC Ball Pressure	IEC 60695-10-2	kV	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	175
ISO Tensile Strength	ISO 527-2	°C	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	MPa	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-1	kJ/m ²	-	-