Property Data

Envalior
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Arnitel® UM552

TPC–ES

Print Date: 2024–09–17

Due to limited hydrolysis resistance, this material should only be used in dry environments.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt flow index MFI	9.5	g/10min	ISO 1133
MFI test load	2.16	kg	ISO 1133
MFI test temperature	230	°C	ISO 1133
MECHANICAL PROPERTIES	**VALUE**		
Shore D Hardness (15s)	55	–	ISO 868
Tensile modulus	250	MPa	ISO 527–1/–2
Yield stress	15	MPa	ISO 527–1/–2
Yield strain	23	%	ISO 527–1/–2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	6	kJ/m²	ISO 179/1eA
Tear strength	165	kN/m	ISO 34–1; Method B
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	195	°C	ISO 11357–1/–3
Temp. of deflection under load (0.45 MPa)	80	°C	ISO 75–1/–2
Vicat softening temperature (50°C/h 50N)	85	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	1.6	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695–11–10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	1.5	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	3	mm	IEC 60695–11–10

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	600	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1260	kg/m³	ISO 1183
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.25	%	Sim. to ISO 62