

Lab Scope

Accredited Laboratory
DIN EN ISO/IEC 17025



REG. NR. 2288
ISO / TS 16949
ISO 14001



Deutsche
Akkreditierungsstelle
D-PL-14280-01-00

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Pos.	Test	Unit	Norm
General properties			
100	Density	g/cm ³	DIN EN ISO 1183-1
101	Moisture absorption	%	DIN EN ISO 1110
102	Residual humidity	%	DIN EN ISO 15512/B
103	Bulk density	g/l	DIN EN ISO 60
104	Injection molding (plaques/specimens)	-	-
105	Mold shrinkage	%	DIN EN ISO 294-4
Mechanical properties			
121	Charpy notched impact strength	kJ/m ²	DIN EN ISO 179-1/1eA
122	Charpy impact strength	kJ/m ²	DIN EN ISO 179-1/1eU
123	Charpy notched impact strength (-30 to -50°C)	kJ/m ²	DIN EN ISO 179-1/1eA***
124	Charpy impact strength (-30 to -50°C)	kJ/m ²	DIN EN ISO 179-1/1eU***
125	IZOD notched impact strength	kJ/m ²	DIN EN ISO 180 An
126	IZOD impact strength	kJ/m ²	DIN EN ISO 180 U An
127	IZOD notched impact strength (-30 to -50°C)	kJ/m ²	DIN EN ISO 180 An***
128	IZOD impact strength (-30 to -50°C)	kJ/m ²	DIN EN ISO 180 U An***
129	Shore-A-hardness	-	DIN EN ISO 868
130	Shore-D-hardness	-	DIN EN ISO 868
Tensile test (Pos. 140 or 141-146)			
140	Nominal strain at break	%	DIN EN ISO 527-2
141	Tensile strain at yield	%	DIN EN ISO 527-2
142	Tensile stress at yield	MPa	DIN EN ISO 527-2
143	Tensile modulus	MPa	DIN EN ISO 527-2
144	Tensile strength	MPa	DIN EN ISO 527-2
145	Tensile strain at break	%	DIN EN ISO 527-2
146	Tensile stress at break	MPa	DIN EN ISO 527-2
147	Temperature-dependent from 23°C to 200°C		DIN EN ISO 527-2***
148	Temperature-dependent from -40°C to 23°C		DIN EN ISO 527-2***
Flexural test			
155	Flexural strain	%	DIN EN ISO 178
156	Flexural stress	MPa	DIN EN ISO 178
157	Flexural strength	MPa	DIN EN ISO 178
158	Flexural modulus	MPa	DIN EN ISO 178
159	Temperature-dependent from 23°C to 200°C		DIN EN ISO 178***
160	Temperature-dependent from -40°C to 23°C		DIN EN ISO 178***

***referring to

Pos.	Test	Unit	Norm
Thermal properties			
170	DSC-Melting / Crystallisation temperature	°C	DIN EN ISO 11357-3
171	TGA	%	DIN EN ISO 11358
172	Carbon black content (Rademacher-method)	%	35.08.PV.020
173	Ash content	%	DIN EN ISO 1172/A
174	VICAT A10	°C	DIN EN ISO 306
175	VICAT B50	°C	DIN EN ISO 306
176	Heat deflection temperature HDT/A	°C	DIN EN ISO 75-2/A
177	Heat deflection temperature HDT/B	°C	DIN EN ISO 75-2/B
178	Heat deflection temperature HDT/C	°C	DIN EN ISO 75-2/C
Pos.	Test	Unit	Norm
Rheological properties			
201	MFR	g/10 min	DIN EN ISO 1133-2 MFR
202	MVR	cm ³ /10 min	DIN EN ISO 1133-2 MVR
203	Viscosity number PA (solution 0,005 g/ml - 96% H ₂ SO ₄)	ml/g	DIN EN ISO 307 PA
204	Viscosity number PET/PBT (solution 0,01 g/ml - DCA)	ml/g	ISO 1628-5
Optical properties			
210	Color L*	-	35.08.PV.022
211	Color a*	-	35.08.PV.022
212	Color b*	-	35.08.PV.022
213	Color delta a	-	36.08.PV.011
214	Color delta b	-	36.08.PV.011
215	Color delta E	-	36.08.PV.011
216	Color delta L	-	36.08.PV.011
217	Size of carbon black agglomerate	µm	35.08.PV.024
218	Black Speck Analysis (quantity/dimension)		35.08.AA.034
Electrical properties			
231	Surface resistivity	Ω	35.08.PV.025
232	CTI/comparative tracking indice	-	DIN IEC 60112
Flammability			
240	Flammability UL 94 (cond. 48h/23°C/50%RH)	class	35.08.PV.008
241	Flammability UL 94 (cond. 168h/70°C)	class	35.08.PV.008
242	Flammability UL 94 HB	class	35.08.PV.009
243	Burning rate acc. FMVSS 302 (<100mm/min)	mm/min	ISO 3795
244	GWFI	°C	DIN IEC 60695-2-12
245	GWIT	°C	DIN IEC 60695-2-13
Instrumental analytic			
250	FTIR-Spectroscopy	-	35.08.AA.040
260	Gas Chromatography	-	-
Test report			
999	Test report according to DIN EN ISO/IEC 17025	-	DIN EN ISO/IEC 17025