

laboratory tests

Accredited Laboratory
DIN EN ISO/IEC 17025



REG. NR. 2288
ISO / TS 16949
ISO 14001



DAC-PL-0373-05-00

Pos.	Test	Unit	Norm
General properties			
100	Density	g/cm ³	DIN EN ISO 1183-1
101	Moisture absorption	%	DIN EN 1110
102	Residual humidity	%	DIN EN ISO 15512 - B
103	Bulk density	g/l	DIN EN ISO 60
104	Injection molding (plaques/specimens)	hour	-
105	Mold shrinkage	%	ISO 294-4
106	Water absorption	%	ISO 62
Mechanical properties			
121	Charpy notched impact strength	kJ/m ²	DIN EN ISO 179-1 ks
122	Charpy impact strength	kJ/m ²	DIN EN ISO 179
123	IZOD notched impact strength	kJ/m ²	ISO 180 An
124	IZOD impact strength	kJ/m ²	ISO 180 U An
125	Shore-A-hardness	-	DIN EN ISO 868
126	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		
148	Temperature-dependent from -40°C to 23°C		
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
Thermal properties			
170	DSC-Melting point/ Crystallisation point	°C	DIN EN ISO 11357
171	Thermogravimetry	°C	DIN EN ISO 11358
172	Carbon black content (Rademacher-method)	%	35.08.29
173	Ash content	%	DIN EN ISO 1172
174	VICAT B50	°C	DIN EN ISO 306
175	Heat deflection temperature HDT/A	°C	DIN EN ISO 75-A
176	Heat deflection temperature HDT/B	°C	DIN EN ISO 75-B
177	Heat deflection temperature HDT/C	°C	DIN EN ISO 75-C

Pos.	Test	Unit	Norm
Rheological properties			
201	MFR	g/10 min	DIN EN ISO 1133 MFR
202	MVR	cm ³ /10 min	DIN EN ISO 1133 MVR
203	Viscosity number PA	ml/g	DIN EN ISO 307 PA
204	Viscosity number PET/PBT	ml/g	DIN ISO 1628-5
Optical properties			
210	Color L*	-	35.08.12
211	Color a*	-	35.08.12
212	Color b*	-	35.08.12
213	Color delta a	-	35.08.12
214	Color delta b	-	35.08.12
215	Color delta E	-	35.08.12
216	Color delta L	-	35.08.12
217	Size of carbon black agglomerate	µm	35.08.25-0
Electrical properties			
230	Volume resistivity	Ω x cm	IEC 60093
231	Surface resistivity	Ω	IEC 60093
232	CTI/comparative tracking indice	-	IEC 60112
Flammability			
240	Flammability UL 94 (cond. 48h/23°C/50%RH)	class	35.08.13
241	Flammability UL 94 (cond. 168h/70°C)	class	35.08.13
242	Flammability UL 94 HB	class	35.08.14
243	Burning rate acc. FMVSS 302 (<100mm/min)	mm/min	ISO 3795
244	GWFI	°C	IEC 60695-2-12
245	GWIT	°C	IEC 60695-2-13
Instrumental analytic			
250	FTIR-Spectroscopy	-	-
260	Gas Chromatography	-	-
270	HPLC	-	-
Test report			
999	Test report according to DIN EN IEC 17025	-	DIN EN IEC 17025