



Black ESD TWEEZERS & TWEEZERS TIPS

Part Numbers	All tweezers with ESD suffix Valid for plastic tweezers and Quick Change replaceable tips
Material	Polyamid 66 with carbon fiber, ESD, Black

Test	Norm	Unit	Value
Density	ISO 1183	g/cm ³	1,28
Tensile strength (at +23°)	ISO 527	MPa	210
Tensile strength (at +60°)	ISO 527	MPa	159
Tensile strength (at +90°)	ISO 527	MPa	134
Tensile strength (at +120°)	ISO 527	MPa	117
Elongation at break	ISO 527	%	2,5
Flexural Modulus (+23°)	ASTM D790	MPa	17000
Flexural Modulus (at +60°)	ASTM D790	MPa	12000
Flexural Modulus (at +90°)	ASTM D790	MPa	9800
Flexural Modulus (at +120°)	ASTM D790	MPa	8000
Heat distribution Temperature	ASTM D 648	° C	95°
Melting point	ASTM D1525	° C	>260°
Charpy impact strength (+23°)	DIN 53453	kJ/m ²	30
Charpy impact strength (-20°)	DIN 53454	kJ/m ²	19
Charpy impact strength (-40°)	DIN 53455	kJ/m ²	16
Electrically resistivity	DIN IEC 167 +LUV-Methode Sipel's tools	ohm/sq	10.2