

ALCOM® TPU 810/1998.1 CF

Thermoplastic Polyurethane Elastomer

ALBIS PLASTIC GmbH

Message:

ALCOM® TPU 810/1998.1 CF is a Thermoplastic Polyurethane Elastomer product filled with 12% carbon fiber. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® TPU 810/1998.1 CF include automotive and engineering/industrial parts.

Characteristics include:

REACH Compliant

RoHS Compliant

Conductive

General Information			
Filler / Reinforcement	Carbon Fiber,12% Filler by Weight		
Features	Electrically Conductive		
Uses	Automotive Applications		
	Machine/Mechanical Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	95		
Shore D	50		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	400	MPa	ISO 527-2
Tensile Stress (Break)	39.0	MPa	ISO 527-2
Tensile Strain (Break)	32	%	ISO 527-2
Flexural Modulus	410	MPa	ISO 178
Flexural Stress	18.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	68	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 110	°C	
Drying Time	1.0 to 3.0	hr	
Suggested Max Moisture	0.050	%	
Processing (Melt) Temp	210 to 230	°C	
Mold Temperature	20.0 to 40.0	°C	

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