

ALCOM® TPU 810/3070.1 CF15

Thermoplastic Polyurethane Elastomer

ALBIS PLASTIC GmbH

Message:

ALCOM® TPU 810/3070.1 CF15 is a Thermoplastic Polyurethane Elastomer product filled with 15% carbon fiber. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® TPU 810/3070.1 CF15 include automotive and engineering/industrial parts.

Characteristics include:

REACH Compliant

RoHS Compliant

Conductive

General Information			
Filler / Reinforcement	Carbon Fiber,15% 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	1.25	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	590	MPa	ISO 527-2
Tensile Stress	45.0	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	600	MPa	ISO 178
Flexural Stress	20.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	60	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	62.0	°C	ISO 75-2/A
Vicat Softening Temperature	58.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	50	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
Extrusion	Nominal Value	Unit
Melt Temperature	200 to 220	°C

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

