PRE-ELEC® TPU 1510

Thermoplastic Polyurethane Elastomer

Premix Oy

Message:

General Information

PRE-ELEC® TPU 1510 is a conductive compound based on a modified polyether thermoplastic polyurethane (TPU). Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC® TPU 1510 has retained the excellent mechanical properties of the base elastomer

PRE-ELEC® TPU 1510 has been developed for extrusion but it can also be injection moulded. Typical applications included extruded conveyor belts, sheets, tubing, cables and injection moulded technical parts.

Additive	Carbon black		
Features	Conductivity		
Uses	Conveyor belt repair		
	Conveyor accessories		
	Pipe fittings		
	Sheet		
Forms	Particles		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
	1.13	g/cm³	ASTM D792
	1.10	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/10.0			
kg)	10	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	11.0	MPa	ASTM D638, ISO 527-2
	11.0	MPa	ASTM D638
4.00 mm	11.0	MPa	ISO 527-2
Tensile Elongation			
Yield	250	%	ASTM D638, ISO 527-2
Fracture	250	%	ASTM D638
Fracture, 4.00mm	250	%	ISO 527-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	ESD STM11.11, IEC 61340-2-3

Volume Resistivity	1.0E+2	ohms·cm	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0 - 3.0	hr	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	190	°C	
Cylinder Zone 3 Temp.	200	°C	
Cylinder Zone 4 Temp.	210	°C	
Cylinder Zone 5 Temp.	200	°C	
Extrusion instructions			

Cylinder Zone 6: 200°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

