

# PRE-ELEC® TPE 1502

Thermoplastic Elastomer

Premix Oy

## Message:

PRE-ELEC® TPE 1502 is a conductive thermoplastic compound based on a thermoplastic elastomer (TPE). Conductivity is achieved by using a special conductive carbon black. In addition to a low electrical resistivity, PRE-ELEC® TPE 1502 has retained the excellent mechanical properties of the base elastomer.

Typical applications include extruded profiles, seals and sheets.

General Information			
Additive	Carbon black		
Features	Conductivity		
Uses	Seals		
	Sheet		
	Profile		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	4.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow	2.1	%	ASTM D955
Flow direction	2.1	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	65		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	4.21	MPa	ASTM D638
100% strain, 4.00mm	270	MPa	ASTM D638
200% strain, 4.00mm	360	MPa	ASTM D638
300% strain, 4.00mm	450	MPa	ASTM D638
4.00 mm	4.20	MPa	ISO 527-2
100% strain, 4.00mm	1.90	MPa	ISO 527-2
200% strain, 4.00mm	2.50	MPa	ISO 527-2
300% strain, 4.00mm	3.10	MPa	ISO 527-2
Tensile Elongation			
Fracture	650	%	ASTM D638
Fracture, 4.00mm	650	%	ISO 527-2
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	< 1.0E+3	ohms	ESD STM11.11, IEC 61340-2-3
Volume Resistivity	< 1.0E+2	ohms·cm	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	65.0	°C	
Drying Time	1.0 - 2.0	hr	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	200	°C	
Cylinder Zone 5 Temp.	210	°C	
Extrusion instructions			
Cylinder Zone 6: 210°C			

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