

## MAXXAM S551

### **POLYPROPYLENE COMPOUND FOR SOLID INSULATION OF COMPUTER, INSTRUMENT AND TELEPHONE WIRE**

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**Maxxam S551** is a fully stabilised solid PP copolymer block for applications requiring superior mechanical properties at elevated temperatures. **Maxxam S551** is suitable both as primary insulation and as the skin layer in foam-skin constructions.

**Maxxam S551** is fully stabilised for thermal ageing and copper contact.  
**Maxxam S551** exhibits outstanding heat resistance and long-term stability.

On the finished cable, **Maxxam S551** provides a smooth surface, excellent electrical and dimensional stability, and outstanding mechanical properties.

#### **TECHNICAL INFORMATION**

<b>Electrical properties<sup>1</sup></b>	<b>Test method</b>	<b>Unit</b>	<b>Typical value<sup>2</sup></b>
Dissipation factor at 1MHz (23°C/50%HR)	IEC 60250	*	0,05
Dissipation factor at 50Hz (23°C/50%HR)	IEC 60250	*	0,0013
Dielectric constant at 50Hz (23°C/50%HR)	IEC 60250	*	2,2
Volume resistivity (23°C/50%HR)	IEC 60093	Ω.cm	>1.10 <sup>16</sup>
Surface resistivity (23°C/50%HR)	IEC 60093	Ω	>1.10 <sup>15</sup>

  

<b>Physical properties</b>	<b>Test method</b>	<b>Unit</b>	<b>Typical value<sup>2</sup></b>
Melt flow, 230°C/2,16kg	ISO 133,	g/10min	5,5
Tensile strength at yield <sup>3</sup>	ISO 527/1A	MPa	22
Elongation at yield <sup>3</sup>	ISO 527/1A	%	9
Elongation at break <sup>3</sup>	ISO 527/1A	%	>500

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<sup>1</sup> Measurements done on Maxxam S551 molded plate 120x120x1mm

<sup>2</sup> Data should not be used for specification work

<sup>3</sup> Measurement done on Maxxam S551 cable without conductor

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#### **PROCESSING**

Optimum processability is achieved on extruders with  $L \geq 24D$ . Typical processing conditions for **Maxxam S551** will vary, depending on product, extruder size and screw design.

Extrusion temperatures in °C for modern extruder with 4 barrel zones

Undried compound from bag or octabin						
Zone 1	Zone 2	Zone 3	Zone 4	Adapter	Head	Die
180	190	220	230	230	230	230

Melt temperature (°C): 210-230

Conductor preheating (°C): 120-130

#### **DELIVERY**

Form: Granules

Package: 1000kg pallets (25kg bags)  
1000 kg octabins (No bottom outlet)

#### **SAFETY**

**Maxxam S551** is not classified as a dangerous preparation.

The product is supplied in form of free-flowing granules of about 3 - 4 mm size and can be readily handled with commercially available equipment. All handling and transport of the product may generate some dust and fines that constitute a potential risk for dust explosion. All metal parts in the system should therefore be properly grounded. Properly designed equipment and good housekeeping will reduce the risk. Check and follow local codes and regulations!

Inhalation of any type of dust may irritate the air passages and should be avoided.

The product is intended for industrial use only. A Materials Safety Data sheet is available on request. Please contact your PolyOne representative for more details on various aspects of safety, recovery and disposal of the product.

#### **For any further technical details please contact us**

Information in this publication is to the best of our knowledge true and accurate. However, since conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee. Users are recommended to establish for themselves the suitability of our products in their cable construction. The above values should not be used for quality control purposes.

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