



Maxxam™ SY 89-21-1

Polypropylene

Key Characteristics

Product Description

Maxxam™ SY 89-21-1 is a polypropylene copolymer compound with a pre-dispersed blowing agent for up to 50% expansion. The compound offers consistent cell structure, dielectric properties, and strength on insulation walls as thin as 10 mils.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Foamable		
Uses	• Cable Jacketing	• Communication Wire Insulation	• Wire & Cable Applications
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	0.580	0.580	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	2.1 g/10 min	2.1 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³ (Yield)	3400 psi	23.4 MPa	ASTM D638
Tensile Elongation ³ (Break)	400 %	400 %	ASTM D638
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Dielectric Constant (1 kHz)	2.24	2.24	ASTM D150
Dissipation Factor (1 kHz)	3.0E-4	3.0E-4	ASTM D150

Additional Information

NOTE: 1. Typical properties of molded slab (0.075"); Not to be construed as specifications. 2. Foam density reduction depends upon loading level, temperature and residence time before cooling. 3. Recommended process temperature: 190°C to 220°C (375°F to 430°F).

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

³ Type IV, 20 in/min (510 mm/min)

CONTACT INFORMATION**Americas**

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314



Beyond Polymers.

Better Business Solutions.SM

www.polyone.com

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe

6 Giällewee
+352 269 050 35

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