



Maxxam™ SY 89-23-7

Polypropylene

Key Characteristics

Product Description

Maxxam™ SY 89-23-7 is a polypropylene copolymer compound with a pre-dispersed blowing agent for up to 60% 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
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.450	0.450	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	3.6 g/10 min	3.6 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)