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
Density / 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 construedas specifications.2. Foam density reduction depends upon loading level, temperatureand residence time before cooling.3. Recommended process temperature: 190°C to 220°C (375°F to430°F).

Notes

[1] Typical values are not to be construed as specifications.

[2] Procedure A

[3] Type IV, 20 in/min (510 mm/min)