AXELERON™ CC B-3487 NT CPD

High Density Polyethylene Cellular Insulation Compound

The Dow Chemical Company

Message:

AXELERON™CC B- 3487 NT is a high-density polyethylene hole material, used for the foam/skin layer of insulation materials for telephone lines and other hole structures. The material contains a chemical foaming agent, which can obtain a 50% foaming amount when temperature controlled extrusion processing is adopted. AXELERON™CC B- 3487 NT has a unique antioxidant system and has excellent long-term insulation aging resistance in oil-filled cable applications.
It is recommended to use this material for products that work in hot environments. Under the condition of adopting the correct extrusion processing specifications for commercial extruders, the product should be able to meet the strict requirements for insulation aging resistance in Telcordia GR 421 CORE and ICEA S-84-608 specifications. AXELERON™CC B- 3487 NT has excellent extrusion processing characteristics, and the insulation products prepared using this product have excellent mechanical and electrical properties.

General Information			
Additive	Antioxidation		
Uses	Thin wall insulation Telephone insulator Wire and cable applications Foam Communication Equipment		
Agency Ratings	ICEA S-84-608		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity [1]	0.945	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	22.1	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Thermal	**Nominal Value**	**Unit**	**Test Method**
Thermal Stress Crack Resistance	> 96	hr	ASTM D2951
Oxidation Induction Time [2] (220°C)	47	min	ASTM D3895
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (23°C)	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Constant [3] (1 MHz)	2.34		ASTM D1531
Dissipation Factor [4] (1 MHz)	3.0E-4		ASTM D1531
Extrusion instructions			

加工技巧AXELERON™ CC B-3487 NT 提供非常出色的多孔挤出加工稳定性和卓越的多孔绝缘质量.化学发泡多孔绝缘板的挤出是一个精细的过程,要求准确控制挤塑机温度以实现最佳效果.典型的高速生产线结合了计算机控制系统,以保持即时直径和即时容量测量处于预期水平.使用正确设计的聚乙烯测量或双跨阻隔螺杆可实现多孔挤出的最佳效果.典型挤塑机桶的温度为:进料区:340°F (170°C)过渡区:370°F (185°C)测量区:400°F (205 °C)十字头和模具 400°F (205 °C)需要将测量和十字头区域温度调节到具有 ± 0.5°C 的公差,以便为给定生产线上的给定产品/操作条件提供预期的多孔膨胀率.建议在每个生产线上为每种绝缘产品制定最优化的挤出条件并进行标准化.对于发泡/外层挤出,建议使用略小于成品绝缘直径(-0.02mm/-0.001
英寸)的双锥形短合模面聚乙烯模具.需要 >266°F (>130°C)
的导线预热以提供良好的绝缘拉伸伸长率性能.较低的预热温度起初效果良好,但老化绝缘伸长率性能不佳.

NOTE	
1.	Solid
2.	Aluminum plate
3.	Solid
4.	Solid

Recommended distributors for this material

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