## AXELERON™ CS O-3364 NT CPD

High Density Polyethylene Solid Insulation Compound

The Dow Chemical Company

## Message:

AXELERON<sup>™</sup> CS O-3364 NT CPD is a high molecular weight, high-density polyethylene insulation compound ("CPD") providing excellent oxidative stability, toughness and abrasion resistance. AXELERON<sup>™</sup> CS O-3364 NT CPD also provides excellent processing capability in high speed insulating extrusion processes. The AXELERON<sup>™</sup> CS O-3364 NT CPD insulation compound has been optimized to yield increased insulation to conductor adhesion. The increased conductor adhesion improves processing latitude and insulation shrinkback performance for heavy wall insulation and tight pair twisting applications such as data grade LAN.

AXELERON<sup>™</sup> CS O-3364 NT CPD provides good performance across the full range of twisted pair telecommunication insulation applications. AXELERON<sup>™</sup> CS O-3364 NT CPD readily meets Telcordia and ICEA requirements as well as most international age testing standards and specifications for both solid and foam/skin telephone cable insulation use. In the demanding grease filled cable application, AXELERON<sup>™</sup> CS O-3364 NT CPD provides superior long term aging performance meeting the stringent Telcordia testing requirements.

SPECIFICATIONS

AXELERON™ CS O-3364 NT CPD meets the following material specifications:

ASTM D 1248 Type III Category A-4, Grade E8 and E9

Federal LP-390 C, II-H, Grades 1 and 2, Category 4

Telephone wire insulated with AXELERON<sup>™</sup> CS O-3364 NT CPD, using sound cable design and fabrication practices, will meet the following specifications: Telcordia GR-421-CORE, Issue 1, December 1998, "Generic Requirements for Metallic Telecommunications Cables"

ICEA S-84-608, "Telecommunications Cable; Filled, Polyolefin Insulated, Copper Conductor -Technical Requirements"

REA PE 39, "Filled Telephone Cable"

REA PE 89, "Filled Telephone Cable with Expanded Insulation"

General Information				
Uses	Communication Wire Insulation			
	Solid Insulation			
	Telephone Insulation			
	Thin-walled Insulation			
	Wire & Cable Applications			
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4, Grade E8			
	ASTM D 1248, III, Class A, Cat. 4, Grade E9			
	FED L-P-390C, Type II, Class H, Category 4, Grade 1			
	ICEA S-84-608			
	REA PE-39			
	REA PE-89			
Forms	Pellets			
Processing Method	Extrusion			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	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	23.4	MPa	ASTM D638	
Tensile Elongation (Yield)	500	%	ASTM D638	

Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (200°C)	170	min	ASTM D4565
Thermal Stress Crack Resistance	> 96	hr	ASTM D2951
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
	2.32		
Dielectric Constant (1 MHz)	2.32		ASTM D1531
	6.0E-5		
Dissination Factor (1 MHz)	6 0F-5		۵STM D1531
	0.02 5		
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 5 Temp	230	°C	

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Recommended distributors for this material

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