

Orevac® 18341

Linear Low Density Polyethylene

Arkema

Message:

OREVAC® 18341 is a maleic anhydride modified linear low-density polyethylene. It is available in pellet form for use in conventional extrusion equipment designed to process polyolefin.

Applications

OREVAC® 18341 has been designed to develop a reliable bonding strength between polyethylene or ethylene copolymers and mineral fillers such as aluminum trihydrate (ATH) or magnesium hydroxide (MDH). It is an effective coupling agent for halogen-free flame retardant compounds using high loadings of mineral fillers, such as compounds for insulation and sheathing of wires and cables.

OREVAC® 18341 can also be used as a tie layer in pipe-coating technology for multi-layer structures. It has been designed to develop a reliable bonding strength onto FBE (Fusion Bonded Epoxy) steel pipe protective layer.

General Information			
Features	Bondability		
Uses	Pipe Coatings		
	Plastics Modification		
	Tie-Layer		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shore D, 1 sec, Compression Molded	55		
Shore D, 15 sec, Compression Molded	45		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	250	MPa	ASTM D638, ISO 527-2/1A
Tensile Strength (Break, Compression Molded)	> 20.0	MPa	ASTM D638, ISO 527-2/1A
Tensile Elongation (Break, Compression Molded)	> 600	%	ASTM D638, ISO 527-2/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ¹	95.0	°C	ISO 306/A, ASTM D1525 ²
Melting Temperature	121	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 to 190	°C	
Cylinder Zone 2 Temp.	190 to 200	°C	
Cylinder Zone 3 Temp.	200 to 210	°C	

Cylinder Zone 4 Temp.	210 to 220	°C
Cylinder Zone 5 Temp.	220 to 230	°C
Die Temperature	220 to 240	°C

NOTE		
1.	On compression molded samples	
2.	Loading 1 (10 N)	

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