

# Orevac® 18410/18342N

High Density Polyethylene

Arkema

Message:

OREVAC® 18410/18342N is a maleic anhydride modified high-density polyethylene used in pipe-coating technology for multi-layer structures. It is available in pellet form for use in conventional extrusion equipment designed to process polyolefin.

Applications

OREVAC® 18410/18342N has been designed to develop a reliable bonding strength onto FBE (Fusion Bonded Epoxy) steel pipe protective layer. It is mainly used as tie layer in three-layer high-density polyethylene coatings (epoxy primer / adhesive / polyethylene), where mechanical and adhesive performances at high temperatures are required.

General Information			
Features	Bondability		
Uses	Pipe Coatings		
	Tie-Layer		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm <sup>3</sup>	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	59		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	310	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break, Compression Molded)	> 20.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, Compression Molded)	> 600	%	ASTM D638, ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature <sup>1</sup>	110	°C	ISO 306/A, ASTM D1525 <sup>2</sup>
Melting Temperature	125	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 to 200	°C	
Cylinder Zone 2 Temp.	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		

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#### Recommended distributors for this material

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