Orevac® 18302N

Linear Low Density Polyethylene

Arkema

Message:

OREVAC® 18302N is a maleic anhydride modified low-density polyethylene available in pellet form. It can be processed on most extrusion equipments designed to process conventional polyolefin.
Applications:
OREVAC® 18302N has been designed to develop a reliable bonding strength between polyethylene or most ethylene copolymers and many kinds of different materials among which polyamides and EVOH.
OREVAC® 18302N is also recommended in non-halogen flame retardant cable compounds using high loadings of mineral fillers which require outstanding mechanical properties - high tensile strength at break and good elongation and good chemical resistance.

General Information	
Features	Flame Retardant Good Adhesion Good Chemical Resistance Halogen Free High Elongation High Strength
Uses	Piping
Forms	Pellets
Processing Method	Coextrusion Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.912	g/cm³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ASTM D1238, ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638, ISO 527-2
Yield, Compression Molded	7.00	MPa	
Break, Compression Molded	20.0	MPa	
Tensile Elongation (Break, Compression Molded)	790	%	ASTM D638, ISO 527-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature [1]	84.0	°C	ISO 306/A, ASTM D1525 [2]
Melting Temperature	123	°C	ISO 11357
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	160 to 180	°C	
Cylinder Zone 2 Temp.	180 to 200	°C	
Cylinder Zone 3 Temp.	200 to 220	°C	
Cylinder Zone 4 Temp.	210 to 230	°C	

Cylinder Zone 5 Temp.	215 to 230	°C
Adapter Temperature	220 to 230	°C
Melt Temperature	> 210	°C
Die Temperature	220 to 240	°C

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

Recommended distributors for this material

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