

Orevac® 18507

High Density Polyethylene

Arkema

Message:

OREVAC® 18507 is a chemically functionalized high-density polyethylene with a high content of maleic anhydride. Grafted maleic anhydride induces polarity and leads to outstanding adhesion properties on natural fibers and mineral fillers.

Applications

OREVAC® 18507 has been designed to be used as coupling agent in halogen free flame retardant cable compounds. It provides outstanding mechanical properties, high tensile strength at break and good elongation, good abrasion and good chemical resistance.

OREVAC® 18507 is suitable also to develop a reliable bonding strength between HDPE resins and mineral filler or natural fibers.

General Information			
Features	Good Abrasion Resistance		
	Good Adhesion		
	Good Chemical Resistance		
	High Tensile Strength		
Uses	Plastics Modification		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	66		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	10.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, Compression Molded)	800	%	ASTM D638, ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	128	°C	ISO 11357-3

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