

OREVAC® 18603

A Performing Extrudable Tie Layer

for PET Based Oxygen Barrier Multilayer Packaging

SK Functional Polymer presents its brand new tie resin OREVAC® 18603, suitable for polyester-based flexible and rigid multilayer packaging. OREVAC® 18603 is a maleic anhydride modified ethylene methyl-acrylate (EMA) copolymer resin. Its high acrylate content gives OREVAC® 18603 outstanding adhesion to miscellaneous substrates like Polyester, PVC or PS. Its fine-tune maleic anhydride ratio, allows OREVAC® 18603 to chemically react and adhere to barrier material like Nylon or EVOH. OREVAC® 18603 complies with both FDA and EU food regulations.

In the packaging field, OREVAC® 18603 is currently used as tie resin in co-polyester based lidding film. Such kind of lidding solution is directly sealable onto mono material CPET or APET based container which opens through a so-called burst peel mechanism. Thanks to its adhesive performances, OREVAC® 18603 is the appropriate tie resin solution in order to develop shrinkable film and produce lidding film exhibiting drum effect (film with low shrink ratio). It is also the right solution to manufacture polyester shrinkable film on triple or double bubble blown to pack chunk of meat or cheese (film with high shrink ratio).



OREVAC® 18603 shows outstanding thermal stability. Therefore, it can be extruded several times and be easily recycled. Thanks to its high compatibility with both polyester and polyethylene, it can be used as compatibiliser in PE/PET blend in mechanical recycling process. OREVAC® 18603 also fosters APET or CPET recycling and contributes to the circular economy. When combined to co-polyester in a multilayer film, OREVAC® 18603 allows developing lidding solutions, which are directly sealable onto mono CPET or mono APET containers (jar, tray or cup). Those mono-material based containers are fully recyclable.

Characteristics	Value	Unit	Standard
Melt Index (190°C/2.16Kg)	3.0	g/10 min	ISO 1133 / ASTM 1238
Melting Point	92	°C	ISO 11357-3
Density	0.95	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening point (10N)*	<40	°C	ISO 306 / ASTM D1525

*On compression moulded sample