Eltex® Superstress™ CAP508S3

高密度聚乙烯共聚物

INEOS Olefins & Polymers Europe

Technical Data

产品说明

Eltex® Superstress™ CAP508S3 is a High Density Polyethylene copolymer manufactured by INEOS Olefins & Polymers Europe using its proprietary supported catalyst & process, particularly intended for the injection and compression moulding of screw caps for the packaging of beverages. It is especially suited for applications requiring excellent stress cracking resistance and enhanced processability. Thanks to high purity and excellent organoleptic properties it is well suited for packaging in direct contact with beverages and sensitive food.

Typical applications

- Injection Moulding and Compression Moulding of Caps & Closures for the packaging of sparkling water and carbonated soft drinks; especially in reduced weight cap designs
- Injection Moulding of thin wall packaging, especially for the food industry

Benefits and Features

- Very good processability
- High stress cracking resistance
- Excellent quality controlled organoleptic properties
- Grade containing a medium effective Slip Agent to reduce the friction at application and opening of caps.

Note : Exposure to direct sunlight has to be avoided as the slip agent is light sensitive and its degradation can give off-taste to the beverage.

总体

添加剂	• 中度光滑性		
特性	• 纯度高 • 高 ESCR（抗应力开裂） • 高密度	• 共聚物 • 可加工性，良好 • 良好的感官特征	• 中度光滑性
用途	• 包装 • 薄壁包装	• 护罩 • 食品包装	• 外壳
RoHS 合规性	• 联系制造商		
加工方法	• 压缩模塑	• 注射成型	

物理性能	额定值 (英制)	额定值 (公制)	测试方法
密度	0.953 g/cm³	0.953 g/cm³	ISO 1183
熔流率（熔体流动速率）(190°C/2.16 kg)	1.8 g/10 min	1.8 g/10 min	ISO 1133
抗环境应力开裂 (104°F (40°C))	32.0 hr	32.0 hr	内部方法
机械性能	**额定值 (英制)**	**额定值 (公制)**	**测试方法**
拉伸模量 (73°F (23°C))	145000 psi	1000 MPa	ISO 527-2/1B
拉伸应力 (屈服, 73°F (23°C))	3770 psi	26.0 MPa	ISO 527-2/1B
冲击性能	**额定值 (英制)**	**额定值 (公制)**	**测试方法**
简支梁无缺口冲击强度 (73°F (23°C))	2.6 ft·lb/in²	5.5 kJ/m²	ISO 179

补充信息

In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.