

Perstorp Compounds Akestra™ 90 Thermoplastic Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Akestra™ is a thermoplastic with a sparkling glass-like appearance. It can be used as a polystyrene alternative for heat resistant thin wall containers, a polycarbonate alternative for durable "dishwasher proof" transparent products, and a glass alternative for hot-fill food containers. Akestra™ 90 is comparable to PETG in transparency, but with more than 10°C superior Tg and 20% higher flexural modulus and fully compatible with conventional PET. Information provided by Perstorp Compounds Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Perstorp-Compounds-Akestra-90-Thermoplastic-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength	54.0 MPa	7830 psi	
Elongation at Break	220 %	220 %	ASTM D638
Flexural Yield Strength	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.250 J/cm	0.468 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	95.0 °C	203 °F	ASTM D7426

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	91 %	91 %	ASTM D1003

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