

SKYPURA® 1631

SK Chemicals - Polycyclohexylenedimethylene Terephthalate

General Information

Product Description

SKYPURA PCT is high performance polyester with excellent thermal, hydrolytic stability and low oligomer content. SKYPURA 1631 is a specially modified PCT for bi-axially oriented film process.

General

Features	<ul style="list-style-type: none"> • Good Thermal Stability • Hydrolytically Stable
Uses	<ul style="list-style-type: none"> • Bi-axially Oriented Film
Processing Method	<ul style="list-style-type: none"> • Bi-axially Oriented Film

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.16		ASTM D792
Intrinsic Viscosity	0.78	dl/g	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16100	psi	ASTM D638
Tensile Strength (Yield)	6020	psi	ASTM D638
Tensile Strength (Break)	6490	psi	ASTM D638
Tensile Elongation (Yield)	6.2	%	ASTM D638
Flexural Modulus	220000	psi	ASTM D790
Flexural Strength	8450	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.7	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	171	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	149	°F	ASTM D648
Glass Transition Temperature	192	°F	ASTM E1356
Vicat Softening Temperature	514	°F	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.6E+16	ohms	ASTM D257
Volume Resistivity	1.9E+20	ohms·cm	ASTM D257
Dielectric Strength	730	V/mil	ASTM D149
Dielectric Constant	5.25		ASTM D150
Dissipation Factor	6.3E-3		ASTM D150