ECOTRIA® T90H-CR30

PETG — SK Chemicals

Product Texts

ECOTRIA T90H-CR30 is glycol-modified polyethylene (PETG) with exceptional transparency and chemical resistance with plant-derived biomass components (Carbon-based 2%).

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.0035**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	**43**	MPa	ISO 527
Yield strain	**4.5**	%	ISO 527
Stress at break	**52**	MPa	ISO 527
Strain at break	**240**	%	ISO 527
Flexural modulus, 23°C	**1700**	MPa	ISO 178
Flexural strength	**62**	MPa	ISO 178
Izod notched impact strength, +23°C	**93**	kJ/m²	ISO 180/1A
Rockwell hardness	**R 115**	-	ISO 2039-2
ASTM Data			
Tensile Strength at Yield	**42.2**	MPa	ASTM D 638
Tensile Strength at Break	**44.1**	MPa	ASTM D 638
Elongation at Yield	**5.3**	%	ASTM D 638
Elongation at Break	**320**	%	ASTM D 638
Flexural Modulus	**1766**	MPa	ASTM D 790
Flexural Strength	**67.7**	MPa	ASTM D 790
Rockwell Hardness	**R 105**	-	ASTM D 785
Izod Impact notched, 1/8 in	**860**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**66**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**78**	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	**76**	°C	ASTM D 648
DTUL @ 264 psi	**66**	°C	ASTM D 648

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**1**	%	ASTM D 1003
Light Transmittance	**90**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	**1230**	kg/m³	ISO 1183
Density	**1230**	kg/m³	ASTM D 792

Characteristics

Special Characteristics
Heat stabilized or stable to heat, Transparent

Applications
Packaging

Chemical Resistance
General Chemical Resistance

Regional Availability
Europe

Certifications
Contains renewable resources, Recycled Resin Content, Food contact