

ECOTRIA® R100

Copolyester

SK Chemicals

ECOTRIA R100 resin, conceived and developed by SK Chemicals is a crystalline polyester blend, containing 30% of post-consumer recycled (PCR) PET.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Density, 73°F	1320	kg/m ³	ASTM D 792
Mechanical Properties			
ISO Data			
Yield stress	54	MPa	ISO 527
Yield strain	4.2	%	ISO 527
Stress at Break	24	MPa	ISO 527
Strain at Break	110	%	ISO 527
Flexural Modulus (23°C)	2200	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	5	kJ/m ²	ISO 180/1A
Rockwell Hardness	R 115	-	ISO 2039-2
ASTM Data			
Tensile Strength at Yield	53.5	MPa	ASTM D 638
Tensile Strength at Break	39.2	MPa	ASTM D 638
Elongation at Yield	4.7	%	ASTM D 638
Elongation at Break	425	%	ASTM D 638
Flexural Modulus	2305	MPa	ASTM D 790
Flexural Strength	77	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
Notched Impact Strength (Izod), 1/8 in	60	J/m	ASTM D 256
Thermal Properties			
ISO Data			
Temp. of deflection under load (0.45 MPa)	72	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	72	°C	ASTM D 648
Other Properties			
ISO Data			
Density	1320	kg/m ³	ISO 1183
Optical Properties			
ASTM Data			
Haze	3	%	ASTM D 1003
Light Transmittance	86	%	ASTM D 1003

Characteristics

Processing

Injection Molding, Blow Molding

Special Characteristics

Transparent

Features

Color Stability, Copolymer

Chemical Resistance

General Chemical Resistance

Certifications

Recycled Resin Content, Food approval

Applications

Packaging

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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