

Raditer® B N100

Polybutylene Terephthalate

Radici Plastics

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

PBT injection moulding grade. Natural colour.

General

Material Status	• Commercial: Active		
Search for UL Yellow Card	• Radici Plastics		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.32 g/cm ³	1.32 g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 73°F (23°C)	0.40 %	0.40 %	
Equilibrium, 73°F (23°C), 50% RH	0.10 %	0.10 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	399000 psi	2750 MPa	ISO 527-2
Tensile Stress (Yield)	8700 psi	60.0 MPa	ISO 527-2
Tensile Strain (Yield)	8.5 %	8.5 %	ISO 527-2
Nominal Tensile Strain at Break	35 %	35 %	ISO 527-2

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/eA
-22°F (-30°C)	2.0 ft·lb/in ²	4.2 kJ/m ²	
73°F (23°C)	2.0 ft·lb/in ²	4.2 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	329 °F	165 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	140 °F	60.0 °C	ISO 75-2/Af
Vicat Softening Temperature	356 °F	180 °C	ISO 306/B50
Melting Temperature (DSC)	437 °F	225 °C	ISO 3146

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	1.0E+14 ohms·cm	1.0E+14 ohms·cm	IEC 60093
Comparative Tracking Index	550 V	550 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.0315 in (0.800 mm)	HB	HB	
0.0630 in (1.60 mm)	HB	HB	

Additional Information

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357-1-3 at a heating rate of 10°C/min.

Notes

¹ Typical properties: these are not to be construed as specifications.



Where to Buy

Supplier

Radici Plastics

, Italy

Telephone: +39-35-499-1311

Web: <http://www.radicigroup.com/plastics/>

Distributor

Atlantic Polymers Corp.

Telephone: 914-273-0125

Web: <http://www.apolymers.com/>

Availability: North America

Plastics Plus, Inc.

Telephone: 248-393-0300

Web: <http://www.plasplus.com/>

Availability: North America

Plastribution

Telephone: +44-845-345-4560

Web: <http://www.plastribution.co.uk/>

Availability: United Kingdom

PolySource

Telephone: 866-558-5300

Web: <http://www.polysource.net/>

Availability: North America

