



Technical Data Sheet

Umincorp rPET (origin - 100% house hold waste)

Polyethylene terephthalate

Product description

Umincorp's PET is typically used for sheet, fiber, strapping band and packaging applications.

Typical Properties	Test Method	Unit Value*
Physical		
Density	ISO 1183-1	1333 kg/m ³
Intrinsic Viscosity	ASTM D4603	0.77 dl/g
Glass Transition Temperature	ISO 11357-2	79 °C
Mechanical		
Charpy Impact Strength (unnotched)	ISO 179-1/1eU	Non-break
Charpy Impact Strength (notched)	ISO 179-1/1eA	3.2 (C) kJ/m ²
Heat Deflection Temperature	ISO 75-2 (A)	62 °C
Tensile Modulus (23 °C)	ISO 527-2 type 1A, 1 mm/min	2324 MPa
Tensile strain at yield	ISO 527-2 type 1A, 50 mm/min	3.8 %
Tensile stress at yield	ISO 527-2 type 1A, 50 mm/min	55.3 MPa
Tensile strain at break	ISO 527-2 type 1A, 50 mm/min	313 %
Tensile stress at break	ISO 527-2 type 1A, 50 mm/min	40.3 MPa
Miscellaneous		
Acetaldehyde content	UPLC	4.7 ppm
Limonene content	GC-MS	<0.1 ppm
Color	ASTM D2244	L* = 42.65 a* = -3.6 b* = 2.72

Last modified – 30/06/2020

*Unit values are typical values, not to be construed as specifications