

MDS r-PET “BRIGHT”

RECYCLED POLYETHYLENE TEREPHTHALATE (r-PET)

UPRA recycles post-consumer plastic waste. We make impact in the most sustainable way and we want to be a frontrunner in the global challenge of making plastic packaging circular. Umincorp has developed a disruptive plastic recycling approach by using a unique technology called Magnetic Density Separation (MDS). Our technology enables us to recycle plastics at high recovery rates with a low carbon footprint. We make plastics circular.

PRODUCT DESCRIPTION

UPRA MDS r-PET is a recycled, medium viscous r-PET grade.

APPLICATION

UPRA MDS r-PET can be used for sheet, fibre, hhh, packaging applications. This grade cannot be used for direct food applications.

TYPICAL PROPERTIES

Physical	Typical Value	Units	Test Method
Density	1333	kg/m ³	ISO 1183-1
Intrinsic Viscosity	0.77	dl/g	ASTM D4603
Glass Transition Temperature	79	°C	ISO 11357-2

Mechanical	Typical Value	Units	Test Method
Charpy Impact Strength (unnotched)	Non-break		ISO 179-1/1eU
Charpy Impact Strength (notched)	3,2	kJ/m ²	ISO 179-1/1eA
Heat Deflection Temperature	62	°C	ISO 75-2 (A)
Tensile Modulus (23 °C)	2324	MPa	ISO 527-2 type 1A, 1mm/min
Tensile strain at yield	3.8	%	ISO 527-2 type 1A, 50 mm/min
Tensile stress at yield	55.3	MPa	ISO 527-2 type 1A, 50 mm/min
Tensile strain at break	313	%	ISO 527-2 type 1A, 50 mm/min
Tensile stress at break	40.3	MPa	ISO 527-2 type 1A, 50 mm/min

Miscellaneous	Typical Value	Units	Test Method
Colour	L* = 42.65 a* = -3.6 b* = 2.7		ASTM D2244

WE MAKE PLASTICS CIRCULAR

All information contained in this provisional data sheet is based on typical values and intended for reference and comparison purposes only. The data above is provided in good faith but we do assume no liability for any inaccuracies or variations in actual values, nor do we assure the suitability of any material for any specific application. It is the buyer's responsibility to determine the suitability of the product for the intended application