

PROVISIONAL TECHNICAL DATA SHEET

PureFive Ultra™ HPP15-100



Product Description

HPP15 is a 100% PCR homopolymer polypropylene, excluding additive content, available in pellet form. This resin can supplement or replace equivalent PP with a more sustainable solution.

PureCycle's purification process is designed to purify streams of recyclable polypropylene to remove odor, color and other impurities resulting in a material that can be reused multiple times to advance the circular economy.

Typical Characteristics¹

	ASTM Method	Properties (Mean)	Units	Range
Physical Properties				
Melt Flow Rate, 230 °C	D1238	15	g/10 min	10 -20
Density	D792	0.91	g/cm ³	0.9 – 0.92
Mechanical Properties¹				
Tensile Yield Stress	D638	35	MPa	27 – 41
		5000	psi	3900 – 5900
Flexural Modulus, 1% secant	D790	1.6	MPa	1.2 – 1.8
		240	ksi	180 – 270
Notched Izod Impact @ 23 °C	D256	0.7	ft-lbs/in	0.5 – 0.72
		50	J/m	36 - 54

1. All values are provisional and based on limited testing.