



Description of product	Bituminous waterproofing membrane
Photo of product (Rem. : appearance of membrane does not change with or without recycled polymer)	
<p>1. Top sheet (currently with iPP post industrial but no post consumer)</p>  <p>2. Base sheet (currently with iPP post consumer) – lower quality requirements</p> 	
Origin of recycled content	iPP : post-industrial from label packaging iPP Densificato : Italy – Post-consumer from packaging aPP : post-industrial
% recycled content	<p>iPP 72% of our iPP is post-industrial – so 10% of the total amount of polymers 28% of our iPP is post-consumer – so 4% of the total amount of polymers → 100% of iPP used = recycled</p> <p>aPP 350T of our aPP is recycled – so 7% of the total amount of polymers.</p>
Additives and recipe	Only for base-sheets formulations : 4% of iPP post-consumer

	7% of aPP 10% bitumen 42% recycled bitumen 37% fillers	
Physical properties – on bituminous blend	Viscosity	10.800 cPs
	Cold flexibility	-10°C
	Penetrability	70 dmm
Physical properties – on finish product	Cold flexibility	-10°C
Does the product meet user specification?	<p>The product (ipp post consumer) is currently usable for base sheets formulations ; the bituminous blend and the finish product have properties in their range.</p> <p>Concerning the top sheets, we need to work with the formulation because the recycled polymer increases a lot the viscosity and prevents us to reach the range of cold flexibility. We can already say that we will not be able to put as much recycled polymer in the formulation of top sheets as in the formulation of base sheets.</p>	