

# Replacement Element Media

<b>Polyimide (P84) Needlefelt</b>	
<b>Appearance</b>	
<b>Use</b>	Filter bags
<b>Composition</b>	100% Polyimide
<b>Area Weight</b> (g/m <sup>2</sup> ) (DIN53854)	550
<b>Thickness</b> (mm) (DIN 53855)	2.7
<b>Air Permeability</b> (1/dm <sup>2</sup> min @ 200 Pa)	150 (1/dm <sup>2</sup> min @ 200 Pa)
<b>Dimensional Stability @ 150°C (%)</b>	<1.0
<b>BIA Category</b>	Not Applicable
<b>Surface Finish</b>	Singed collection side only
<b>Additional Treatments</b>	Heat set
<b>Surface Electrical Resistance</b>	Not Applicable
<b>Temperature (dry heat)</b>	
Continuous (°C)	260**
Peaks (°C)	300
<b>Chemical Resistance</b>	
Hydrolysis	Good
Acids	Good
Alkalis	Good
Oxidising agents	Very Good
Organic solvents	Very Good
<b>Abrasion Resistance</b>	Very Good
<b>Supports Combustion</b>	No
<b>Suitable applications</b>	High temperature filtration, including hot flue gases from incineration plants, coal fired boilers and kilns etc. Typically municipal and hospital waste incinerators and fluid bed boilers. Also other high temperature filtration such as gypsum calcination plants, cement kilns, furnaces and drying/cooling equipment.
	<p><b>What to avoid</b></p> <p>Polyimide is sensitive to high concentrations of sulphuric acid and moisture at elevated temperatures, particularly when operating on or around the acid dew point. Also avoid strong alkali conditions at elevated temperatures.</p> <p>**Although capable of operating continuously up to 260°C under dry and inert conditions, P84 is sensitive to moisture and chemical environments at elevated temperatures, particularly above 180°C.</p>