

# POLYSTER® 50

## Product description

### Constitution:

#### Bituminous mixture:

Modified bitumen APP AVANCE.

Bituminous mixture enhanced for high temperatures, with performance levels between -5 °C and +130 °C.

#### Frame:

Reinforced polyester felt.

#### Finish:

Top layer – Thermofusible polyethylene film.

Bottom layer – Thermofusible polyethylene film.

### Presentation:

8.0 m<sup>2</sup> rolls (1.0 m x 8.0 m), with a nominal weight of 40.0 Kg and straightness ≤ 20 mm/10 m.  
25 roll pallets.



1328-CPD-0173  
NP EN 13707  
06

### Technical characteristics:

CHARACTERISTICS	VALUES	UNITS	TESTS
Nominal mass per surface unit	5.0 ± 0.3	kg/m <sup>2</sup>	EN 1849 - 1
Sag resistance at high temperatures	120	°C	EN 1110
Flexibility at low temperatures	- 5	°C	EN 1109
Dimensional stability	≤ 0.5	%	EN 1107 - 1
Longitudinal tear resistance	≥ 150	N	EN 12310 - 1
Transversal tear resistance	≥ 150	N	EN 12310 - 1
Longitudinal tensile strength	750 ± 150	N/5cm	EN 12311 - 1
Transversal tensile strength	450 ± 90	N/5cm	EN 12311 - 1
Elongation at longitudinal break	35 ± 15	%	EN 12311 - 1
Elongation at transversal break	35 ± 15	%	EN 12311 - 1
Granular adhesion	-	%	EN 12039
Root puncture resistance	-	(Y/N)	EN 13948
Behaviour towards external fire	B roof (t1)	X roof (t1)	ENV 1187 EN 13501 - 5
Reaction to fire	E	CLASS	EN ISO 11925 - 2 EN 13501 - 1
Water tightness	Y	(Y/N)	EN 1928
Resistance to static load	≥ 15	kg	EN 12730
Resistance to impact	≥ 1000	mm	EN 12691 - A
Edge resistance to cuts	-	N/5cm	EN 12317 - 1
Durability Flexibility	-	°C	EN 1296 e 1297
Durability behaviour at high temperatures	-	°C	EN 1296 e 1297

### Maintenance and storage recommendations:

- Avoid falls and knocks.
- Transport and store rolls vertically, always protected from the weather – i.e. sun, rain, frost, hail, snow.
- Raise rolls, always in their pallets, using a crane or stacker.
- For more specific information on transportation, handling and other characteristics, please see the Safety Specifications.

### Eco recommendations:

- The selective separation and the forwarding of the waste from the application of these products are of the sole responsibility of the applier or user and should be done in accordance with applicable legislation.
- The residues of Imperalum bituminous membranes were analyzed in accredited laboratory and classified as non-hazardous according to the Decree-Law n ° 183/2009, which establishes the legal regime of the deposition of waste landfilled in Portugal.

The values presented in these technical specifications are the result of quality control tests carried out by Imperalum (ISO 9001).  
POLYSTER is a registered IMPERALUM trademark.