

HSS 80 Technical Specification

Properties	Unit	HSS 80	Test method
Backing thickness (as supplied) min	mm	1	ASTM D 1000
Adhesive thickness (as supplied) min	mm	1.5	ASTM D 1000
Total thickness (as installed) average	mm	≥ 2.9	ASTM D 1000
Holiday detection at (5 kV/mm + 5 kV)	—	No holiday	ISO21809-3 Annex C
Impact resistance at 23 C	J/mm	≥ 7	ISO21809-3 Annex D
Indentation resistance at Pressure 10,0 N/mm ² Residual thickness at 80 C	mm	$\geq 0,6$	ISO21809-3 Annex E
Cathodic disbondment at 23 C at 80 C	mm	≤ 5 ≤ 10	ISO21809-3 Annex G
Peel strength at 10 mm/min to pipe surface and to poly-olefin plant coating at 23 C at 80 C	N/mm	$\geq 5,0$ ≥ 0.3	ISO21809-3 H
Peel strength at 10 mm/min to pipe surface plant coating after 100 day hot-water immersion test at Tmax limited as per Annex I at 23 C	P100/P0	$\geq 0,75$	ISO21809-3 H&I
Carbon black content	%	2-2.5	ASTM D1603
Carbon black dispersion	Grade	≤ 3	ISO 18553
Lap shear strength at 23 C at 80 C	N/mm ²	$\geq 3,0$ $\geq 0,20$	ISO21809-3 Annex J
Thermal ageing resistance at 23 C	-		
— Elongation at break (E100/E70)	-	$\geq 0,75$	ISO21809-3 Annex M
— Peel strength to pipe surface (P100/P70)	-	$\geq 0,75$	

According to STD: IGS – M- TP- 014-3(3)



9001:2008

