

4205EC-10

EXTRA-CLEAN XLPE COMPOUND FOR 10KV AND BELOW POWER CABLE

Main Properties & Typical Values

Test Items	Unit	Test Method	Standard	Typical value
Tensile strength	MPa	GB/T1040.3	≥13.5	24.7
Elongation at break	%	GB/T1040.3	≥350	521
Heat ageing properties (Test temperature 135℃, 168hr)				
Maximum tensile strength change	%	GB/T8815	±20	12
Maximum elongation at break change	%		±20	3
Heat elongation (200±3)℃ x 15min x 0.2MPa)				
Maximum elongation change under load	%	GB/T2951	≤80	40
Maximum permanent elongation change after cooled	%		≤5	2
Impact brittle temp. (-76℃)	Failure			
Impact brittle	no.	GB/T5470	≤15/30	pass
Dielectric Strength	MV/m	GB/T1408.1	≥25	36
Dielectric loss factor 50Hz, 20℃	--	GB/T1409	≤5×10 ⁻³	3.1×10 ⁻⁴
Dielectric constant 50Hz, 20℃	--	GB/T1409	≤2.35	2.27
Volume resistance (20℃)	Ω·m	GB/T1410	≥1×10 ¹⁴	2.1×10 ¹⁴
Gel content	%	JB/T10437	≥80	85

Note: All typical values were tested by press moulding sample under the condition of 180±2 ℃, 15min, and pressure over 15MPa, then cooling to room temperature