

Thermoplastic LSZH FR Polyolefin Compound

热塑性低烟无卤阻燃聚烯烃电缆料

参考标准 REFERENCE STANDARD
GB/T 32129, GB/T 12706

适用于电力电缆、控制电缆、船用电缆、光缆、市话电缆及信号电缆等的绝缘及护套
This product is applicable to insulation and sheathing of power cable, control cable, marine cable, optical cable, telephone cable and signal cable

产品名称 PRODUCT NAME

- 3501

热塑性低烟无卤阻燃聚烯烃绝缘料
Thermoplastic LSZH FR polyolefin insulation compound
- 3521

热塑性低烟无卤阻燃聚烯烃护套料
Thermoplastic LSZH FR polyolefin sheathing compound
- 3521-B

热塑性低烟无卤高阻燃聚烯烃护套料
Thermoplastic LSZH high FR polyolefin sheathing compound
- 3531

低烟无卤阻燃聚烯烃隔氧层(内护层)料
LSZH FR polyolefin oxygen barrier compound

技术参数 TECHNICAL DATA

项目 Properties	典型值 Typical Value			
	3501	3521	3521-B	3531
拉伸强度 tensile strengthMPa	12	12.3	11.9	9
断裂伸长率 elongation at break%	160	183	171	128
 热老化 heat aging				
试验温度 testing temperature℃	100	110	110	-
试验时间 testing timeh	168	240	240	-
拉伸强度变化率 variation at tensile strength%	10	15	19	-
断裂伸长率变化率 variation at elongation%	-9	-9	-11	-
热应力开裂 thermal stress cracking [130℃×1h]	无裂纹 no crack	无裂纹 no crack	无裂纹 no crack	-
 浸热水试验 immersion in hot water [70℃×168h]				
拉伸强度变化率 variation at tensile strength%	-	-21	-25	-
断裂伸长率变化率 variation at elongation%	-	-18	-23	-
冲击脆化性能 low temperature brittleness℃	-40	-40	-40	-
20℃体积电阻率 volume resistivity at 20℃Ω.m	9×10 ¹²	5×10 ¹¹	2×10 ¹¹	-
介电强度 dielectric strengthMV/m	24	26	24	26
电导率 conductivityμS/mm	1.4	1.2	1.4	1.1
pH值 pH value-	5.2	5.2	5.2	5.7
卤酸气体释放量 acid gas emissionmg/g	<1	<1	<1	<1
最大烟密度(有焰) max smoke density (flaming-mode)-	66	58	50	44
最大烟密度(无焰) maximum smoke density (flameless)-	256	243	225	197
氧指数 oxygen index-	30	32	35	45