

UV XLPE
Insulation Compound

紫外光交联聚乙烯绝缘料

参考标准 REFERENCE STANDARD

JB/T 10437

本产品具有优良的物理机械性能、加工性能优异、不产生预交联、免蒸煮、使用方便及挤出线缆外观光滑圆整等特点，主要应用于 3KV 及以下低压电力电缆绝缘层。如生产颜色线，需配套我司专用（红、黄、蓝、绿等）色母料，该色母料具有耐候性优越、耐高温等级高及生产过程中不褪色等特点。

This compound has an outstanding physical & mechanical and process processing performance. Without pre-crosslinking and steaming, it is easy to be used. The cable made from this material has a smooth surface. It is applicable to insulation of 3KV and below low-voltage power cable. If colors are required, Zhonglian can supply color master batch with different colors, for instance, red, yellow, blue, green etc. The color master batch has excellent weather resistant property, high temperature resistant and no color fading during manufacturing

产品名称 PRODUCT NAME

YJZ-43103KV 及以下紫外光交联聚乙烯绝缘料
3KV and below UV XLPE insulation compound

技术参数 TECHNICAL DATA

项目 Properties	典型值 Typical Value	试验方法 Testing Method
	YJG-4310	
拉伸强度 tensile strengthMPa	21.2	GB/T 1040.3
断裂伸长率 elongation at break%	586	
🔥 热老化 heat aging (135°C×168h)		
拉伸强度变化率 variation at tensile strength%	+5.3	GB/T 2951.12
断裂伸长率变化率 variation at elongation%	-6.4	
冲击脆化性能 low temperature brittleness (-76°C)-	Pass	GB/T 5470-2008
➡️ 热延伸 hot set (200°C、0.2Mpa、15min)		
负荷下伸长率 elongation under load%	70	GB/T 1040
冷却后永久变形 permanent elongation after cooling%	2.5	
20°C体积电阻率 volume resistivity at 20°CΩ·m	7.8×10 ¹⁴	GB/T 1410
介电强度 dielectric strengthMV/m	34	GB/T 1408.1
50Hz、20°C介电常数 dielectric constant-	2.25	GB/T 1409
凝胶含量 gel content%	65	JB/T10437

注：1、使用红、黄、蓝、绿色母粒时生产速度会有 10%~20% 左右的降低，否则会影响产品交联度。
2、请严格按照厂家所给的配比比例添加色母粒。
3、生产过程中有余料产生，应用 PE 袋密封保存好，一周内用完。

Note: 1. When using red, yellow, blue and green masterbatch, the production speed will decrease by 10%~20%, otherwise it will affect the degree of cross-linking of the product.
2. When adding color masterbatch, please strictly follow the proportion.
3. If the compound is not used up, it should be sealed and stored in PE bag and be used within one week.