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# **OPTRAL**

## **OPTRAL Departamento Técnico**

### **ESPECIFICACIONES TÉCNICAS**

<i>REFERENCIA:</i>	ET.02.007
<i>PRODUCTO:</i>	LSZH Compound
<i>TIPO:</i>	HFLSFR
<i>REV:</i>	98/01

#### **PHYSICAL PROPIERTIES**

- Hardness  $\geq 50$  Shore D (ISO R 868)
- Conventional Density  $1.50 \text{ g/cm}^3$  (ISO 1183)
- Water Absortion  $4.2 \text{ mg/cm}^2$  (IEC 60811)  
(24 hours at  $100^\circ$ )
- Thermal Ageing 168 hours at  $100^\circ$  (IEC 60811)
  - Tensile Strength, % variation from original +10 %
  - Elongation, % variation from original -16 %
- Aged in oil SAE 20 4 hours at  $70^\circ$  (IEC 60811)
  - Tensile Strength, % variation from original -22 %
  - Elongation, % variation from original + 1 %
- Aged in water, 168 hours at  $70^\circ$  (BS 6724)
  - Tensile Strength, % variation from original -12 %
  - Elongation, % variation from original -24 %
- Aged in hidrocarbon 4 hours at  $25^\circ$  (IEC 2011)
  - Tensile Strength, % variation from original -3 %
  - Elongation, % variation from original 0 %

#### **MECHANICAL PROPIERTIES**

- Tensile Strenght  $> 11 \text{ Mpa}$  (IEC 60811)
- Elongation at break  $> 150 \%$  (IEC 60811)

#### **BURNING PROPIERTIES**

- Oxigen Index  $> 35\%$  (ASTM D-2863)
- Vertical Burning Test Pass (IEC-332-3 Cat C)
- Halogen Content  $< 0.1 \text{ mg/g}$  (IEC 754-1)
- Ph (min) 4.2 (IEC 754-2)
- Conductivity (max)  $20 \mu\text{S/cm}$  (IEC 754-2)

#### **OBSERVATIONS / OBSERVACIONES**

Halogen free, low smoke and flame retardant compound for outer sheathing of cables use.

Compuesto libre de halógenos, de baja emisión de humos y retardante a la llama para utilizar en cubiertas exteriores de cables.

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