OSSXL02 is a Flexible Silane Cross-linkable Halogen Free Flame Retardant Cable compound for Low Voltage insulation and jacketing.

Advantages
OSSXL02 will cross-link by exposure to moist conditions when mixed with a catalyst master-batch OSSCAT2 generally in the ratio 97:3.
- Suitable for processing on Conventional PVC-PE extrusion lines
- High speed extrusion possible compared to peroxide and monosil processing systems.
- No electron-beam and gamma source facilities required.
- Excellent Flame Retardant properties

Packaging
Cylindrical pellets supplied in 700kg Octagonal-bin with moisture resistant heat-sealed liner or in 25kg moisture barrier bags.

Standards:
AS/NZS3808: X-HF-110(insulation); HFS-110-TP(jacket)
IEC60092-360; HF-90(insulation), SHF-1(jacket); UL:XLPO-105
UL 2885 Certificate Number 20151009-E47872 Halogen Free Compliance
UL 746R Certificate Number 20160815-E484662 ROHS Compliance

Type/Property | Typical value | Unit | Method
--- | --- | --- | ---
Melt Index @ 21.6Kg / 160°C | 3 | g/10min | ASTM-D-1238
Density | 1.40 | g/cm³ | ASTM-D-792
Bulk Density | 0.9 | g/mL | ASTM-D-6683
Tensile at break | 12 | Mpa | ASTM-D-412
Elongation at break | 170 | % | ASTM-D-412
Hardness | 92 | Shore A | ASTM-D-2240
LOI | 37 | % | ASTM-D-2863

Hot-Set Test @ 200°C
Elongation under load | 60 | % | IEC 60811
Forced cure @ 80°C in water

Heat-aging 168h @ 150°C
Tensile at break | 12 | Mpa | 500 mm/min
Elongation at break | 140 | % |

Electrical
Insulation resistant constant | 10000/25.6 | Gohm.m | min 550/0.55
KI @ 20°C/90°C

Volume resistivity @ 20°C/90°C | 2.97x10¹²/6.98x10¹² | Ohm.cm | min 1.0x10⁻¹⁰/1.5x10⁻¹²

Halogen acid Gas content | Not detected | | UL 2885 E47872
Acidity( pH≥4.3)and Conductivity(≤10µS/mm) | Not detected | | UL 2885 E47872

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Flexible Silane Cross-linkable, Halogen Free, Low Smoke, Flame Retardant, Insulation/Jacketing Compound
Applications: Jacketing and insulation for Building, Mining, Petrochemical and shipboard.
Recommended Extruder Specifications
An extruder with an L/D ratio (length/diameter) of 15-24 and an extruder screw with a compression ratio 1.5:1 or less are recommended.

Recommended Temperature Profile
It is important that the melt temperature is not allowed to rise above 200°C. As a guide the following temperature profile is recommended:

<table>
<thead>
<tr>
<th>Zone 1</th>
<th>Zone 2</th>
<th>Zone 3</th>
<th>Zone 4</th>
<th>Head Die</th>
</tr>
</thead>
<tbody>
<tr>
<td>140°C</td>
<td>150°C</td>
<td>160°C</td>
<td>170°C</td>
<td>180°C</td>
</tr>
</tbody>
</table>

This profile will vary slightly depending on extruder type, head design and output.

Screw water temperature
Depends upon screw design, but should be 30-50°C.

Recommended screen pack
50 (mesh apertures per linear inch) or 300 micron.

Head and tool design
The head and tools should be so designed as to allow streamlined flow of material. A PE design is recommended for the screw / To obtain the optimum in physical properties in the case of tubing tools, draw down ratio of 1.5:1 is recommended to avoid internal stress.

Master-batches
Addition of approved color master-batches, including black, up to a maximum of 3%, has no detrimental effect on the properties. It is recommended that all master-batches should be thoroughly dried at the recommended temperature and time defined by the supplier.

Storage and shelf life
OSSXL02 normally has a shelf life of at least 6 months from the date of manufacture. The storage of silane cross-linkable compounds in cool dry conditions will maximize useful shelf life. However, the following precautions should be observed:
- Packaging should remain sealed
- Avoid temperature above 25°C
- Avoid storage outside and in direct sunlight

The herein given information corresponds to our actual knowledge and is deemed to be correct and reliable. But they do not represent binding properties. Customer and user have to decide autonomously on the application in the provided range. Under no circumstances is OSSCOMP Pty Ltd liable for any eventual, indirect or consequential damages arising from the sales, re-sales transfer, use or misuse of the product. Our Liabilities are limited to only in replacing products due to manufacturing defects.