

# Polyrocks EP8400X125V-2

Crosslinked Polyethylene  
Polyrocks Chemical Co., Ltd

Message:

Irradiation cross-linked low-smoke halogen-free flame retardant polyolefin wire & cable compound is environmental flame retardant material with hydroxide as main flame retardant elements. Dehydration endothermic and carbonize play the flame retardant performance. Irradiation cross-linked low-smoke halogen-free flame retardant polyolefin wire & cable compound, which Mechanical properties meet the requirements of XLPE coating of electronic wire, automotive wire and photovoltaic wire, flammability reach UL1581 VW-1, and meet the requirements of ROHS, SVHC, PFOS & PFOA, 16P, Halogen, PAHs... etc.

| General Information                                  |                                  |                   |
|--|----------------------------------|-------------------|
| Additive   | Flame retardancy 2               |                   |
| Features   | Low smoke                        |                   |
|  | Radiation crosslinkable          |                   |
|  | Halogen-free                     |                   |
|  | Flame retardancy                 |                   |
| Uses   | Wire and cable applications      |                   |
|  | Wire sheath                      |                   |
|  | Electronic cable sheath material |                   |
| Wire Types   | VW-1                             |                   |
| Agency Ratings                                       | EC 1907/2006 (REACH)             |                   |
| RoHS Compliance                                      | RoHS compliance                  |                   |
| Forms  | Particles                        |                   |
| Physical   | Nominal Value                    | Unit              |
| Density  | 1.68                             | g/cm <sup>3</sup> |
| pH   | 5.6                              |                   |
| Toxicity   | 1.20                             |                   |
| Smoke Density  |                                  |                   |
| Flame  | 58                               |                   |
| Flameless  | 130                              |                   |
| Electrical Conductivity                              | 1.10                             | μS/mm             |
| Halogen Acid Gas Evolution                           | 0.00                             | mg/g              |
| Mechanical   | Nominal Value                    | Unit              |
| Tensile Strength                                     | 14.0                             | MPa               |
| Tensile Elongation (Break)                           | 310                              | %                 |
| Aging  | Nominal Value                    | Unit              |
| Change in Tensile Strength in Air (158°C, 168 hr)    | -5.0                             | %                 |
| Change in Ultimate Elongation in Air (158°C, 168 hr) | -20                              | %                 |

| Thermal                   | Nominal Value | Unit    |
|---------------------------|---------------|---------|
| Brittleness Temperature   | -40.0         | °C      |
| Electrical                | Nominal Value | Unit    |
| Volume Resistivity (20°C) | 2.0E+14       | ohms·cm |
| Dielectric Strength       | 25            | kV/mm   |
| Flammability              | Nominal Value | Unit    |
| Oxygen Index              | 45            | %       |

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