

# FRAGOM PR/900

Polyolefin

Crosspolimeri S.p.A.

## Message:

FRAGOM is the trade-mark of our flame retardant halogen free polyolefine thermoplastic compounds.

FRAGOM PR/900 is a flexible flame retardant polyolefine thermo-plastic compound having high temperature index and good oxygen index, suitable for cable sheathing and insulation.

| General Information                                           |                  |                   |             |
|---------------------------------------------------------------|------------------|-------------------|-------------|
| Features                                                      | Flame Retardant  |                   |             |
|                                                               | Good Flexibility |                   |             |
|                                                               | Halogen Free     |                   |             |
| Uses                                                          | Cable Jacketing  |                   |             |
| Agency Ratings                                                | BS 7655 LTS 1-3  |                   |             |
|                                                               | CEI 2011 M1      |                   |             |
|                                                               | VDE 0207 HM2     |                   |             |
| Forms                                                         | Pellets          |                   |             |
| Physical                                                      | Nominal Value    | Unit              | Test Method |
| Specific Gravity                                              | 1.52             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                                     |                  |                   | ASTM D1238  |
| 160°C/21.6 kg                                                 | 12               | g/10 min          |             |
| 190°C/21.6 kg                                                 | 29               | g/10 min          |             |
| Hardness                                                      | Nominal Value    | Unit              | Test Method |
| Durometer Hardness (Shore D)                                  | 45               |                   | ASTM D2240  |
| Mechanical                                                    | Nominal Value    | Unit              | Test Method |
| Tensile Stress (Yield)                                        | 12.5             | MPa               | IEC 60811   |
| Tensile Strain (Break)                                        | 180              | %                 | IEC 60811   |
| Aging                                                         | Nominal Value    | Unit              | Test Method |
| Change in Tensile Strength in Air (110°C, 168 hr)             | 5.0              | %                 | IEC 60811   |
| Change in Tensile Strain at Break in Air (110°C, 168 hr)      | -15              | %                 | IEC 60811   |
| Change in Tensile Stress (70°C, 4 hr, in SAE 20 Oil)          | -4.0             | %                 | IEC 60811   |
| Change in Tensile Strain at Break (70°C, 4 hr, in SAE 20 Oil) | -8.0             | %                 | IEC 60811   |
| Thermal                                                       | Nominal Value    | Unit              | Test Method |
| Cold Elongation (-25°C)                                       | 40               | %                 |             |
| Hot Set - Penetration <sup>1</sup> (80°C)                     | 35               | %                 | IEC 60811   |
| Corrosive Gas in Smoke - pH                                   | > 4.50           |                   | IEC 60754-2 |

|                                          |               |      |             |
|------------------------------------------|---------------|------|-------------|
| Halogen Content                          | 0             | %    | IEC 60754-1 |
| Temperature Index (Burning) <sup>2</sup> | 300           | °C   | NES 715     |
| Flammability                             | Nominal Value | Unit | Test Method |
| Oxygen Index                             | 42            | %    | ASTM D2863  |
| Extrusion                                | Nominal Value | Unit |             |
| Cylinder Zone 1 Temp.                    | 100           | °C   |             |
| Cylinder Zone 2 Temp.                    | 115           | °C   |             |
| Cylinder Zone 3 Temp.                    | 145           | °C   |             |
| Cylinder Zone 4 Temp.                    | 160           | °C   |             |
| Cylinder Zone 5 Temp.                    | 165           | °C   |             |
| Die Temperature                          | 170           | °C   |             |
| NOTE                                     |               |      |             |
| 1.                                       | 4 hr          |      |             |
| 2.                                       | 21% O2        |      |             |

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