

# POLIGOM 04/AF 2

Ethylene Propylene Diene Terpolymer

Crosspolimeri S.p.A.

## Message:

POLIGOM : is our flexible thermoplastic compound flame retardant PVC free and heavy-metal free.

POLIGOM 04/AF 2 : it is studied to produce a general purpose flexible sheathing without migration risks (plasticizers-free).

Suitable to pass 30,000 cycles.

Certify : TI6,TM7,VDE 0207 HM4(K=0,7),AS/NZS 3808:2000 HFI 75-90 TP,HFS 75-90-110 TP

| General Information                                      |                             |                   |             |
|----------------------------------------------------------|-----------------------------|-------------------|-------------|
| Features                                                 | Good flexibility            |                   |             |
|                                                          | Flame retardancy            |                   |             |
| Uses                                                     | Cable sheath                |                   |             |
|                                                          | Wire and cable applications |                   |             |
| Agency Ratings                                           | AS/NZS 3008:2000            |                   |             |
|                                                          | VDE 0207 HM4 K=.7           |                   |             |
| Forms                                                    | Particle                    |                   |             |
| Processing Method                                        | Extrusion                   |                   |             |
| Physical                                                 | Nominal Value               | Unit              | Test Method |
| Specific Gravity                                         | 1.45                        | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)                | 9.0                         | g/10 min          | ASTM D1238  |
| Hardness                                                 | Nominal Value               | Unit              | Test Method |
| Durometer Hardness                                       |                             |                   | ASTM D2240  |
| Shaw A                                                   | 92                          |                   | ASTM D2240  |
| Shaw D                                                   | 36                          |                   | ASTM D2240  |
| Mechanical                                               | Nominal Value               | Unit              | Test Method |
| Tensile Stress (Yield)                                   | > 10.0                      | MPa               | IEC 60811   |
| Tensile Strain (Break)                                   | > 140                       | %                 | IEC 60811   |
| Aging                                                    | Nominal Value               | Unit              | Test Method |
| Change in Tensile Strength in Air (110°C, 168 hr)        | < 20                        | %                 | IEC 60811   |
| Change in Tensile Strain at Break in Air (110°C, 168 hr) | < 20                        | %                 | IEC 60811   |
| Thermal                                                  | Nominal Value               | Unit              | Test Method |
| Hot Pressure Test - Residual <sup>1</sup> (90°C)         |                             | %                 | IEC 60811   |
| Head Temperature                                         | 180                         | °C                |             |
| Electrical                                               | Nominal Value               | Unit              | Test Method |
| Dielectric Constant (50 Hz)                              | 4.30                        |                   | ASTM D150   |

| Flammability                                                                                                                                                              | Nominal Value | Unit | Test Method |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|-------------|
| Oxygen Index                                                                                                                                                              | > 31          | %    | ASTM D2863  |
| Additional Information                                                                                                                                                    |               |      |             |
| No detrimental effects on properties and capability of POLIGOM in presence of convenient Masterbatch colours, black included. We suggest to dry masterbatch before using. |               |      |             |
| Extrusion                                                                                                                                                                 | Nominal Value | Unit |             |
| Drying Temperature                                                                                                                                                        | 80.0          | °C   |             |
| Drying Time                                                                                                                                                               | 3.0 - 4.0     | hr   |             |
| Cylinder Zone 1 Temp.                                                                                                                                                     | 150           | °C   |             |
| Cylinder Zone 2 Temp.                                                                                                                                                     | 155           | °C   |             |
| Cylinder Zone 3 Temp.                                                                                                                                                     | 170           | °C   |             |
| Cylinder Zone 4 Temp.                                                                                                                                                     | 175           | °C   |             |
| Die Temperature                                                                                                                                                           | 185           | °C   |             |
| NOTE                                                                                                                                                                      |               |      |             |
| 1.                                                                                                                                                                        | K=0.7, 4 hr   |      |             |

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