

# Elvaloy® AC 1209

Ethylene Methyl Acrylate Copolymer

DuPont Packaging & Industrial Polymers

## Message:

Elvaloy® AC 1209 is a copolymer of ethylene and methyl acrylate. It is available in pellet form for use in conventional extrusion equipment designed to process polyethylene type resins.

9% Methyl Acrylate

| General Information                       |                        |                   |                      |
|---|------------------------|-------------------|----------------------|
| Features                                  | Copolymer              |                   |                      |
| Agency Ratings                            | FDA 21 CFR 177.1340(a) |                   |                      |
| Forms                                     | Pellets                |                   |                      |
| Processing Method                         | Extrusion              |                   |                      |
| Physical                                  | Nominal Value          | Unit              | Test Method          |
| Specific Gravity                          | 0.927                  | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0                    | g/10 min          | ASTM D1238, ISO 1133 |
| Methyl Acrylate Content                   | 9.0                    | wt%               |                      |
| Thermal                                   | Nominal Value          | Unit              | Test Method          |
| Vicat Softening Temperature               | 70.0                   | °C                | ASTM D1525, ISO 306  |
| Melting Temperature                       | 101                    | °C                | DSC, ISO 3146        |
| Extrusion                                 | Nominal Value          | Unit              |                      |
| Cylinder Zone 1 Temp.                     | 135                    | °C                |                      |
| Cylinder Zone 2 Temp.                     | 160                    | °C                |                      |
| Cylinder Zone 3 Temp.                     | 185                    | °C                |                      |
| Cylinder Zone 4 Temp.                     | 185                    | °C                |                      |
| Cylinder Zone 5 Temp.                     | 185                    | °C                |                      |
| Adapter Temperature                       | 185                    | °C                |                      |
| Melt Temperature                          | 160 to 235             | °C                |                      |
| Die Temperature                           | 185                    | °C                |                      |

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