

# EVAL™ F104

Ethylene Vinyl Alcohol

Kuraray Co., Ltd.

## Message:

32 mol% Ethylene Vinyl Alcohol Copolymer  
F104B - Pellets are lubricated to facilitate material feeding into extruder

| General Information                                       |               |                                               |             |
|-----------------------------------------------------------|---------------|-----------------------------------------------|-------------|
| Forms                                                     | Pellets       |                                               |             |
| Physical                                                  | Nominal Value | Unit                                          | Test Method |
| Density                                                   | 1.18          | g/cm <sup>3</sup>                             | ISO 1183    |
| Melt Mass-Flow Rate (MFR)                                 |               |                                               | ISO 1133    |
| 190°C/2.16 kg                                             | 4.4           | g/10 min                                      |             |
| 210°C/2.16 kg                                             | 10            | g/10 min                                      |             |
| Ethylene Content                                          | 32.0          | wt%                                           |             |
| Hardness                                                  | Nominal Value | Unit                                          | Test Method |
| Rockwell Hardness (M-Scale)                               | 93            |                                               | ISO 2039-2  |
| Mechanical                                                | Nominal Value | Unit                                          | Test Method |
| Tensile Modulus                                           | 2700          | MPa                                           | ISO 527-2   |
| Tensile Stress (Break)                                    | 40.0          | MPa                                           | ISO 527-2   |
| Tensile Strain (Break)                                    | 11            | %                                             | ISO 527-2   |
| Flexural Modulus                                          | 4800          | MPa                                           | ISO 178     |
| Films                                                     | Nominal Value | Unit                                          | Test Method |
| Oxygen Permeability                                       |               |                                               | ISO 14663-2 |
| 20°C, 0% RH                                               | 3.9E-3        | cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr |             |
| 20°C, 65% RH                                              | 7.9E-3        | cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr |             |
| 20°C, 85% RH                                              | 0.030         | cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr |             |
| Water Vapor Transmission Rate <sup>1</sup> (40°C, 90% RH) | 1.6           | g·mm/m <sup>2</sup> /atm/24 hr                | ASTM E96    |
| Impact                                                    | Nominal Value | Unit                                          | Test Method |
| Charpy Unnotched Impact Strength                          | 2.0           | kJ/m <sup>2</sup>                             | ISO 179/1U  |
| Thermal                                                   | Nominal Value | Unit                                          | Test Method |
| Glass Transition Temperature                              | 58.0          | °C                                            | ISO 11357-2 |
| Melting Temperature                                       | 183           | °C                                            | ISO 11357   |
| Peak Crystallization Temperature                          | 156           | °C                                            | ISO 11357-3 |
| NOTE                                                      |               |                                               |             |
| 1.                                                        | Procedure E   |                                               |             |

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