

# OmniCarb™ PC/ABS 1024 CBFR0

Polycarbonate + ABS

OMNI Plastics, LLC

Message:

Non-Brominated, Non-Chlorinated, Flame Resistant PC/ABS

| General Information                                              |                   |                   |             |
|------------------------------------------------------------------|-------------------|-------------------|-------------|
| UL YellowCard                                                    | E138590-102162081 |                   |             |
| Features                                                         | Bromine Free      |                   |             |
|                                                                  | Chlorine Free     |                   |             |
|                                                                  | Flame Retardant   |                   |             |
| Processing Method                                                | Injection Molding |                   |             |
| Physical                                                         | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                                 | 1.19              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                         | 24                | g/10 min          | ASTM D1238  |
| Mechanical                                                       | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)                                   | 65.5              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                                       | 50                | %                 | ASTM D638   |
| Flexural Modulus                                                 | 2760              | MPa               | ASTM D790   |
| Flexural Strength                                                | 94.5              | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                              | 530               | J/m               | ASTM D256   |
| Thermal                                                          | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm) | 93.3              | °C                | ASTM D648   |
| Flammability                                                     | Nominal Value     | Test Method       |             |
| Flame Rating (3.18 mm)                                           | V-0               | Internal Method   |             |
| Injection                                                        | Nominal Value     | Unit              |             |
| Drying Temperature                                               | 93.3              | °C                |             |
| Drying Time                                                      | 2.0 to 4.0        | hr                |             |
| Suggested Max Moisture                                           | 0.020             | %                 |             |
| Rear Temperature                                                 | 249 to 271        | °C                |             |
| Middle Temperature                                               | 238 to 266        | °C                |             |
| Front Temperature                                                | 227 to 260        | °C                |             |
| Nozzle Temperature                                               | 227 to 260        | °C                |             |
| Processing (Melt) Temp                                           | 229 to 260        | °C                |             |
| Mold Temperature                                                 | 26.7 to 82.2      | °C                |             |
| Back Pressure                                                    | 0.345 to 0.689    | MPa               |             |

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