

# EvoSource™ ABS 4535 70/35

Acrylonitrile Butadiene Styrene  
MBA Polymers Austria Kunststoffverarbeitung GmbH

Message:  
A UL-HB recognized, easy flowing, post-consumer recycled acrylonitrile-butadiene-styrene copolymer for general use. Available in light grey (reference 70/35).

| General Information |                   |
|---------------------|-------------------|
| UL YellowCard       | E226591-100590212 |
| Recycled Content    | Yes               |
| Features            | Copolymer         |
|                     | Good liquidity    |
| Uses                | General           |
| Appearance          | Light gray        |
| Forms               | Particle          |
| Processing Method   | Extrusion         |
|                     | Injection molding |

| Physical                                          | Nominal Value | Unit              | Test Method     |
|---------------------------------------------------|---------------|-------------------|-----------------|
| Density                                           | 1.07          | g/cm <sup>3</sup> | Internal method |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)         | 24            | g/10 min          | ISO 1133        |
| Mechanical                                        | Nominal Value | Unit              | Test Method     |
| Tensile Modulus (23°C)                            | 2500          | MPa               | ISO 527-2/1     |
| Tensile Stress (Yield, 23°C)                      | 41.0          | MPa               | ISO 527-2/50    |
| Flexural Modulus (23°C)                           | 2400          | MPa               | ISO 178         |
| Impact                                            | Nominal Value | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)             | 12            | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Notched Izod Impact (23°C)                        | 13            | kJ/m <sup>2</sup> | ISO 180/1A      |
| Thermal                                           | Nominal Value | Unit              | Test Method     |
| Vicat Softening Temperature                       | 92.0          | °C                | ISO 306/B50     |
| Electrical                                        | Nominal Value | Unit              | Test Method     |
| Volume Resistivity                                | 1.0E+17       | ohms · cm         | ASTM D257       |
| High Amp Arc Ignition (HAI) (1.5 to 2.8)          | PLC 1         |                   | UL 746          |
| Hot-wire Ignition (HWI) <sup>1</sup> (1.5 to 2.8) | PLC 4         |                   | UL 746          |
| Flammability                                      | Nominal Value | Unit              | Test Method     |
| Flame Rating (1.5 to 2.8)                         | HB            |                   | UL 94           |
| Injection                                         | Nominal Value | Unit              |                 |
| Drying Temperature                                | 80            | °C                |                 |
| Drying Time                                       | 3.0 - 4.0     | hr                |                 |

|                        |               |      |
|------------------------|---------------|------|
| Suggested Max Moisture | 0.050 - 0.10  | %    |
| Processing (Melt) Temp | 210 - 250     | °C   |
| Mold Temperature       | 40 - 60       | °C   |
| Extrusion              | Nominal Value | Unit |
| Drying Temperature     | 80            | °C   |
| Drying Time            | 3.0 - 4.0     | hr   |
| Suggested Max Moisture | 0.050 - 0.10  | %    |
| Melt Temperature       | 200 - 220     | °C   |
| NOTE                   |               |      |
| 1.                     | ASTM D 3847   |      |

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