

# Implex® Implex

Polymethyl Methacrylate Acrylic  
Altuglas International of Arkema Inc.

Message:  
Additional Application(s):  
Quantity and Custom Signs

| General Information                                     |                           |                   |             |
|---------------------------------------------------------|---------------------------|-------------------|-------------|
| Features                                                | Good Impact Resistance    |                   |             |
|                                                         | Good Processability       |                   |             |
|                                                         | Good Toughness            |                   |             |
|                                                         | Good UV Resistance        |                   |             |
|                                                         | Good Weather Resistance   |                   |             |
|                                                         | High Clarity              |                   |             |
|                                                         | Machinable                |                   |             |
|                                                         | Paintable                 |                   |             |
| Uses                                                    | Automotive Exterior Parts |                   |             |
| Agency Ratings                                          | FDA 21 CFR 177.1010       |                   |             |
| Forms                                                   | Sheet                     |                   |             |
| Processing Method                                       | Thermoforming             |                   |             |
| Physical                                                | Nominal Value             | Unit              | Test Method |
| Specific Gravity                                        | 1.18                      | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                                | Nominal Value             | Unit              | Test Method |
| Rockwell Hardness (M-Scale)                             | 73                        |                   | ASTM D785   |
| Mechanical                                              | Nominal Value             | Unit              | Test Method |
| Tensile Modulus                                         | 2480                      | MPa               | ASTM D638   |
| Tensile Strength (Yield)                                | 57.9                      | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 5.4                       | %                 | ASTM D638   |
| Flexural Modulus                                        | 2760                      | MPa               | ASTM D790   |
| Flexural Strength (Yield)                               | 91.7                      | MPa               | ASTM D790   |
| Compressive Strength                                    | 101                       | MPa               | ASTM D695   |
| Impact                                                  | Nominal Value             | Unit              | Test Method |
| Notched Izod Impact (23°C, 12.7 mm)                     | 33                        | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value             | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 85.0                      | °C                | ASTM D648   |
| CLTE - Flow                                             | 7.4E-5                    | cm/cm/°C          | ASTM D696   |
| Thermal Conductivity                                    | 0.19                      | W/m/K             | ASTM C177   |
| Optical                                                 | Nominal Value             | Unit              | Test Method |
| Refractive Index                                        | 1.490                     |                   | ASTM D542   |

|               |      |   |            |
|---------------|------|---|------------|
| Transmittance | 92.0 | % | ASTM D1003 |
| Haze          | 1.2  | % | ASTM D1003 |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

