

# Asaflex™ 840

Styrene Butadiene Styrene Block Copolymer  
AKelastomers

Message:

Injection molding, inflation molding, and sheet extrusion grade. Blended with GPPS (general-purpose polystyrene) or SC\*, for products with well-balanced performance characteristics and good thermal characteristics. It is supplied in pellet form.  
In blends with GPPS, for PSP\* laminate films. In blends with SC, for shrink films and other products.  
\* Styrenic copolymer from PS Japan Corp. similar to Asaflex™ 840 in refraction index, resulting in blends that provide sheet transparency significantly higher than attainable with any GPPS .

| General Information |                        |
|---------------------|------------------------|
| Features            | Copolymer              |
|                     | Good Thermal Stability |
|                     | High Clarity           |
| Uses                | Film                   |
|                     | Laminates              |
|                     | Sheet                  |
| Appearance          | Clear/Transparent      |
| Forms               | Pellets                |
| Processing Method   | Injection Molding      |
|                     | Sheet Extrusion        |

| Physical                                        | Nominal Value | Unit              | Test Method |
|-------------------------------------------------|---------------|-------------------|-------------|
| Density                                         | 1.02          | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)        | 7.0           | g/10 min          | ISO 1133    |
| Molding Shrinkage                               | 0.20 to 0.80  | %                 |             |
| Water Absorption (23°C, 24 hr)                  | 0.10          | %                 | ISO 62      |
| Hardness                                        | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                     | 10            |                   | ISO 2039-2  |
| Shore Hardness (Shore D)                        | 68            |                   | ISO 868     |
| Mechanical                                      | Nominal Value | Unit              | Test Method |
| Tensile Stress (Yield)                          | 27.0          | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                          | 40            | %                 | ISO 527-2/5 |
| Flexural Modulus                                | 1500          | MPa               | ISO 178     |
| Flexural Stress                                 | 34.0          | MPa               | ISO 178     |
| Impact                                          | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength (Complete Break) | 2.0           | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength                | No Break      |                   | ISO 179     |
| Thermal                                         | Nominal Value | Unit              | Test Method |

| Heat Deflection Temperature (1.8 MPa, Unannealed) | 62.0          | °C   | ISO 75-2/A  |
|---------------------------------------------------|---------------|------|-------------|
| Vicat Softening Temperature                       | 81.0          | °C   | ISO 306/A50 |
| Optical                                           | Nominal Value | Unit | Test Method |
| Transmittance (2000 μm)                           | 88.0          | %    | ISO 3537    |
| Haze (2000 μm)                                    | 1.2           | %    | ISO 3537    |

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