

## Stellarchem AB870EM TPE Compound

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE

### Material Notes:

This grade of Stellarchem TPE is shear dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It's a soft, elastomeric polyolefin based, completely recyclable, colorable & non-hygroscopic thermoplastics elastomer material. Information provided by Stellarchem Polymer & Industrial

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Stellarchem-AB870EM-TPE-Compound.php](http://www.lookpolymers.com/polymer_Stellarchem-AB870EM-TPE-Compound.php)

| Physical Properties | Metric        | English                   | Comments  |
|---------------------|---------------|---------------------------|-----------|
| Density             | 1.09 g/cc     | 0.0394 lb/in <sup>3</sup> |           |
| Particle Mesh Size  | 80 - 150 Mesh | 80 - 150 Mesh             |           |
| Melt Flow           | 0.74 g/10 min | 0.74 g/10 min             | JIS K7210 |

| Mechanical Properties      | Metric      | English   | Comments    |
|----------------------------|-------------|-----------|-------------|
| Hardness, Shore A          | 73          | 73        | JIS K6301   |
| Tensile Strength, Ultimate | 5.10 MPa    | 740 psi   | JIS K6301   |
| Elongation at Break        | 445 %       | 445 %     | JIS K6301   |
| 100% Modulus               | 0.02352 GPa | 3.411 ksi | JIS K6301   |
| 300% Modulus               | 0.00147 GPa | 0.213 ksi | JIS K6301   |
| Tear Strength              | 40.3 kN/m   | 230 pli   | JIS K6301-B |

| Processing Properties     | Metric        | English       | Comments                        |
|---------------------------|---------------|---------------|---------------------------------|
| Processing Temperature    | 200 - 220 Â°C | 392 - 428 Â°F | Metering Temperature, Extrusion |
| Rear Barrel Temperature   | 160 - 180 Â°C | 320 - 356 Â°F | Injection Molding               |
|                           | 160 - 180 Â°C | 320 - 356 Â°F | Extrusion                       |
| Middle Barrel Temperature | 180 - 200 Â°C | 356 - 392 Â°F | Injection Molding               |
|                           | 180 - 200 Â°C | 356 - 392 Â°F | Transition, Extrusion           |
| Front Barrel Temperature  | 200 - 220 Â°C | 392 - 428 Â°F | Injection Molding               |
|                           | 220 - 230 Â°C | 428 - 446 Â°F | Extrusion                       |
| Nozzle Temperature        | 220 - 230 Â°C | 428 - 446 Â°F | Injection Molding               |
|                           |               |               |                                 |

| Die Temperature<br>Processing Properties | 195 - 210 Â°C<br>Metric | 383 - 410 Â°F<br>English | Extrusion<br>Comments |
|------------------------------------------|-------------------------|--------------------------|-----------------------|
| Melt Temperature                         | 180 - 230 Â°C           | 356 - 446 Â°F            | Injection Molding     |
|                                          | 180 - 230 Â°C           | 356 - 446 Â°F            | Extrusion             |
| Mold Temperature                         | 25.0 - 40.0 Â°C         | 77.0 - 104 Â°F           | Injection Molding     |
| Injection Pressure                       | 5.00 - 40.0 MPa         | 725 - 5800 psi           | Injection Molding     |
| Back Pressure                            | 0.500 - 1.00 MPa        | 72.5 - 145 psi           | Injection Molding     |
| Screw Speed                              | 60 - 100 rpm            | 60 - 100 rpm             | Extrusion             |
|                                          | 100 - 200 rpm           | 100 - 200 rpm            | Injection Molding     |

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