

## Technical Data Sheet

### Adstif EA648P



High Crystallinity Polypropylene

#### Product Description

Adstif EA648P is a high crystalline impact copolymer with outstanding mechanical properties. The product features an easy processability, an excellent combination of stiffness and impact strength and good gloss.

Adstif EA648P is a single component solution for high stiffness injection moulding applications that is typically used by customers as replacement of mineral filled polypropylene based compounds.

This grade is typically used by customers in a wide range of appliances, such as housings for electrical appliances, furniture and technical components.

Adstif EA648P is UL listed under file E31765.

This grade is not intended for medical and pharmaceutical applications.

|                          |                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------|
| <b>Application</b>       | Caps & Closures; Furniture; Housewares                                                       |
| <b>Market</b>            | Consumer Products; Rigid Packaging                                                           |
| <b>Processing Method</b> | Injection Molding                                                                            |
| <b>Attribute</b>         | Good Processability; High Stiffness; Impact Copolymer; Medium Flow; Medium Impact Resistance |

| Typical Properties                                    | Nominal Value | Units             | Test Method   |
|-------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                       |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 18            | g/10 min          | ISO 1133-1    |
| Density                                               | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                     |               |                   |               |
| Tensile Modulus                                       | 1750          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                               | 32            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                               | 50            | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                               | 5             | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                         |               |                   |               |
| Charpy Impact Strength - Notched                      |               |                   |               |
| (23 °C, Type 1, Edgewise, Notch A)                    | 6.5           | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C, Type 1, Edgewise, Notch A)                     | 3.0           | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                   | 2.5           | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>                                        |               |                   |               |
| Vicat Softening Temperature, (A50)                    | 153           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 100           | °C                | ISO 75B-1, -2 |
| <b>Optical</b>                                        |               |                   |               |
| Gloss, (60°)                                          | 70            | %                 | ASTM D2457    |