

## Product Data Sheet

# Polypropylene Daplen™ EE050AEC

## UNFILLED HETEROPHASIC POLYPROPYLENE FOR INJECTION MOLDING

### Description

**Daplen EE050AEC** is an unfilled polypropylene compound for injection molding. It shows excellent mechanical properties with good impact strength.

This material shows excellent mechanical properties at elevated temperatures. Product is available only in black.

### APPLICATIONS

**Daplen EE050AEC** is designed for automotive Exterior parts

Wheel Housing

Deflectors

### PHYSICAL PROPERTIES

| Property                                               | Typical Value         | Test Method    |
|--------------------------------------------------------|-----------------------|----------------|
| Data should not be used for specification work         |                       |                |
| Density                                                | 900 kg/m <sup>3</sup> | ISO 1183       |
| Melt Flow Rate (230 °C/2.16 kg)                        | 12 g/10min            | ISO 1133       |
| Flexural Modulus (2 mm/min)                            | 810 MPa               | ISO 178        |
| Tensile Stress @ Yield (50 mm/min)                     | 16.5 MPa              | ISO 527-2      |
| Heat Deflection Temperature B (1.8 N/mm <sup>2</sup> ) | 50°C                  | ISO 75-2       |
| Izod Impact Strength, notched (23 °C)                  | 50 kJ/m <sup>2</sup>  | ISO 180/1eA    |
| Izod Impact Strength, notched (-30 °C)                 | 7 kJ/m <sup>2</sup>   | ISO 180/1eA    |
| Mould Average Shrinkage*                               | 1.4% - 1.6%           | Borouge Method |

*\*Measured on 150 mm x 90 mm x 3 mm plaques at conditions 23°C. These values are only valid as a reference and not for specification/tool cutting purpose.*

## PROCESSING TECHNIQUES

The actual conditions will depend on the type of equipment used.

This product is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C.

Following parameters should be used as guidelines:

|                            |                                     |
|----------------------------|-------------------------------------|
| Holding pressure           | 50% – 70% of the injection pressure |
| Injection speed            | Low to medium                       |
| Mould temperature          | 30 - 50 °C                          |
| Injection mass temperature | 220 - 260°C                         |
| Screw speed                | Slow to medium                      |

## STORAGE AND HANDLING

**Daplen EE050AEC** should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

## SAFETY

**Daplen EE050AEC** is not classified as dangerous.

A Safety Data Sheet is available on request. Please contact your Borouge representative for more details on various aspects of safety, recovery and disposal of the product.

## RECYCLING

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

## DISCLAIMER

**The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.**

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