

## POLISTIROLO ANTIURTO RIGENERATO 70/30

### GENERAL PROPERTIES:

| Property | Value | Unit              | Standard | Test Method |
|----------|-------|-------------------|----------|-------------|
| Density* | 1.06  | g/cm <sup>3</sup> | ISO 1183 | -           |

### MECHANICAL PROPERTIES:

| Property            | Value | Unit              | Standard | Test Method |
|---------------------|-------|-------------------|----------|-------------|
| Tensile Modulus     | 1500  | MPa               | ISO 527  | 23°C        |
| Yield stress        | 18    | MPa               | ISO 527  | 23°C        |
| Elongation at yield | 2     | %                 | ISO 527  | 23°C        |
| Charpy (notched)    | 5     | KJ/m <sup>2</sup> | ISO 179  | 23°C, 1eA   |
| Charpy (notched)    | 4     | KJ/m <sup>2</sup> | ISO 179  | -30°C, 1eA  |
| Charpy (un-notched) | -     | KJ/m <sup>2</sup> | ISO 179  | 23°C, 1eU   |
| Charpy (un-notched) | -     | KJ/m <sup>2</sup> | ISO 179  | -30°C, 1eU  |

### THERMAL PROPERTIES:

| Property                         | Value | Unit | Standard | Test Method          |
|----------------------------------|-------|------|----------|----------------------|
| VICAT softening Point            | -     | °C   | ISO 306  | B/50                 |
| HDT-A                            | -     | °C   | ISO 75   | A 1.8Mpa un-annealed |
| Continuous Operating Temperature | 65    | °C   | -        | -                    |

### UV STABILISATION:

| Property         | Value    | Unit | Standard | Test Method                       |
|------------------|----------|------|----------|-----------------------------------|
| UV Stabilisation | Optional | -    | -        | According to customer requirement |

### BURNING BEHAVIOUR:

| Property                 | Value | Unit | Standard | Test Method |
|--------------------------|-------|------|----------|-------------|
| Burning Rate**           |       |      |          |             |
| Flammability Rating      |       |      |          |             |
| Flammability Rating UL** | HB**  | -    | UL94     |             |

### MISCELLANEOUS:

| Property                  | Value     | Unit | Standard | Test Method |
|---------------------------|-----------|------|----------|-------------|
| Mould Shrinkage           | 0.5 - 0.7 | %    | -        | -           |
| Thermoforming Temperature | 180 - 210 | °C   | -        | -           |

Unless otherwise stated, products are tested at a typical thickness of 4mm

<sup>1</sup> The impact values stated indicate the range that this grade meets and *depends on thickness of the sheet, plus actual material grades selected in each layer for every customer's project – typically customised*. Mechanical suitability for each formulation should be evaluated based on the material delivered.

\* The density quoted should only be used as a guide. This value can change depending upon the type and quantity of pigments or additives used.

\*\* Fire behaviour values given by raw material supplier or by indicative test on raw material. Not intended as a specification.

## Supplemental Information

### Chemical Contact and cleaning

| Reagent         | Chemical resistance | Reagent              | Chemical resistance |
|-----------------|---------------------|----------------------|---------------------|
| Acetone         | Poor                | Chloroform           | Poor                |
| Acid – (Weak)   | Very Good           | Citric Acid Solution | Good                |
| Acid – (Strong) | Poor                | Common Salt          | Excellent           |
| Apple Juice     | Very Good           | Detergents           | Good                |
| Beef Fat        | Very Good           | Dairy Products       | Good                |
| Butter          | Good                | Diesel               | Poor                |
| Base (Weak)     | Excellent           | Ethyl Alcohol        | Good                |
| Base (Strong)   | Poor                | Fertilisers          | Good                |
| Carrot Juice    | Excellent           | Petrol               | Poor                |

Chemical resistance is influenced by many factors, including concentration, temperature, exposure time and material stress. Therefore, the data should only be used as a guide.

Most common mild soaps or detergents dissolved in warm water can be used to effectively clean general dirt and surface contaminants, but in all cases should be objectively tested. Abrasive products will damage the surface.

#### Storage and Drying

Long storage times in humid conditions may require a product to be dried, e.g. 80oC for 2 hours +1hr per additional mm of thickness. Space must be left between sheets to allow correct drying.

#### Dimensional Tolerances

Standard tolerances are subject to the local standard tolerance set. Extra tolerance requirements may be possible on request and by special agreement

#### NOTA:

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