

## Polimeri Europa Sinkral® B 432/E ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Sinkral B 432/E is a general purpose extrusion grade which exhibits a good balance between rigidity and toughness. Designation: Thermoplastic ISO 2580-ABS 1,EGN,105-04-16-20Applications: Large sheets with good surface finish (co-extruded or not and with high draw ratios) for a variety of uses in sectors such as refrigeration, sanitary, automotive, packaging and furnitures (profiles).Grade available in natural color only. Suitable masterbatches could be recommended for self-coloring. The composition of this grade meets European Regulations for packaging in contact with foodstuffs.Information provided by Polimeri EuropaISO 2580-ABS 1, EGN, 105-04-16-20

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Sinkral-B-432E-ABS-Resin.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Sinkral-B-432E-ABS-Resin.php)

| Physical Properties   | Metric                                               | English                                              | Comments                    |
|-----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------|
| Density               | 1.04 g/cc                                            | 0.0376 lb/in³                                        | ISO 1183                    |
| Water Absorption      | 0.30 %                                               | 0.30 %                                               | 24 hours - 23°C; ASTM D 570 |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm                                | 0.0040 - 0.0060 in/in                                |                             |
| Melt Flow             | 4.0 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 °C | 4.0 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 °F | ISO 1133                    |

| Mechanical Properties   | Metric                                                   | English                                                       | Comments              |
|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|-----------------------|
| Hardness, Rockwell R    | 110                                                      | 110                                                           | ISO 2039/2            |
| Tensile Strength, Yield | 45.0 MPa                                                 | 6530 psi                                                      | 50 mm/min; ASTM D 638 |
| Elongation at Break     | 45 %                                                     | 45 %                                                          | 50 mm/min; ASTM D 638 |
| Flexural Strength       | 68.0 MPa                                                 | 9860 psi                                                      | 2 mm/min; ASTM D 790  |
| Flexural Modulus        | 2.30 GPa                                                 | 334 ksi                                                       | 2 mm/min; ASTM D 790  |
| Izod Impact, Notched    | 1.00 J/cm<br>@Thickness 3.20 mm,<br>Temperature -40.0 °C | 1.87 ft-lb/in<br>@Thickness 0.126 in,<br>Temperature -40.0 °F | ISO 180/4A            |
|                         | 1.25 J/cm<br>@Thickness 3.20 mm,<br>Temperature -20.0 °C | 2.34 ft-lb/in<br>@Thickness 0.126 in,<br>Temperature -4.00 °F | ISO 180/4A            |
|                         | 1.65 J/cm<br>@Thickness 3.20 mm,<br>Temperature 0.000 °C | 3.09 ft-lb/in<br>@Thickness 0.126 in,<br>Temperature 32.0 °F  | ISO 180/4A            |
|                         | 2.20 J/cm                                                | 4.12 ft-lb/in                                                 |                       |

| Mechanical Properties      | Metric                                                                    | English                                                                        | Comments   |
|----------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------|
|                            | @Thickness 3.20 mm,<br>Temperature 23.0 °C                                | @Thickness 0.126 in,<br>Temperature 73.4 °F                                    | ISO 180144 |
| Izod Impact, Notched (ISO) | 9.00 kJ/m <sup>2</sup><br><br>@Thickness 4.00 mm,<br>Temperature -40.0 °C | 4.28 ft-lb/in <sup>2</sup><br><br>@Thickness 0.157 in,<br>Temperature -40.0 °F | ISO 180/1A |
|                            | 17.0 kJ/m <sup>2</sup><br><br>@Thickness 4.00 mm,<br>Temperature 23.0 °C  | 8.09 ft-lb/in <sup>2</sup><br><br>@Thickness 0.157 in,<br>Temperature 73.4 °F  | ISO 180/1A |
| Charpy Impact Unnotched    | NB<br><br>@Temperature -40.0 °C                                           | NB<br><br>@Temperature -40.0 °F                                                | DIN 53453  |
|                            | NB<br><br>@Temperature 23.0 °C                                            | NB<br><br>@Temperature 73.4 °F                                                 | DIN 53453  |
| Charpy Impact, Notched     | 1.20 J/cm <sup>2</sup><br><br>@Temperature 23.0 °C                        | 5.71 ft-lb/in <sup>2</sup><br><br>@Temperature 73.4 °F                         | DIN 53453  |

| Thermal Properties                             | Metric                                   | English                                    | Comments                     |
|------------------------------------------------|------------------------------------------|--------------------------------------------|------------------------------|
| CTE, linear                                    | 90.0 µm/m-°C<br><br>@Temperature 20.0 °C | 50.0 µin/in-°F<br><br>@Temperature 68.0 °F | ASTM D 696                   |
| Thermal Conductivity                           | 0.170 W/m-K                              | 1.18 BTU-in/hr-ft <sup>2</sup> -°F         | ASTM C 177                   |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 104 °C                                   | 219 °F                                     | 120°C/h; ASTM D 648          |
| Vicat Softening Point                          | 104 °C                                   | 219 °F                                     | 50 N - 120°C/h; ISO 306/B120 |
|                                                | 109 °C                                   | 228 °F                                     | 10 N - 120°C/h; ISO 306/A120 |
| Flammability, UL94                             | HB<br><br>@Thickness 1.50 mm             | HB<br><br>@Thickness 0.0591 in             |                              |
| Glow Wire Test                                 | 650 °C<br><br>@Thickness 3.00 mm         | 1200 °F<br><br>@Thickness 0.118 in         | IEC 60695-2-1                |

| Electrical Properties | Metric                        | English                       | Comments       |
|-----------------------|-------------------------------|-------------------------------|----------------|
| Volume Resistivity    | 1.00e+15 ohm-cm               | 1.00e+15 ohm-cm               | Dry; IEC 60093 |
| Surface Resistance    | 1.00e+14 ohm                  | 1.00e+14 ohm                  | Dry; IEC 60093 |
| Dielectric Constant   | 3.1<br><br>@Frequency 1000 Hz | 3.1<br><br>@Frequency 1000 Hz | Dry; IEC 60250 |

| Dielectric Strength<br>Electrical Properties | 30.0 kV/mm<br>Metric        | 762 kV/in<br>English        | Dry: IEC 60243<br>Comments |
|----------------------------------------------|-----------------------------|-----------------------------|----------------------------|
| Dissipation Factor                           | 0.015<br>@Frequency 1000 Hz | 0.015<br>@Frequency 1000 Hz | dry; IEC 60250             |

| Processing Properties | Metric       | English      | Comments                              |
|-----------------------|--------------|--------------|---------------------------------------|
| Melt Temperature      | 190 - 230 °C | 374 - 446 °F |                                       |
| Drying Temperature    | 80.0 °C      | 176 °F       | No venting in an air circulating oven |
| Dry Time              | 2 - 4 hour   | 2 - 4 hour   | No venting in an air circulating oven |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China