

## SKYPLETE ES200

Copolyester

SK Chemicals

SK Chemicals has developed SKYPLETE ES200 which offers excellent properties for 3D printing filaments.

| Processing/Physical Characteristics | Value  | Unit              | Test Standard |
|-------------------------------------|--------|-------------------|---------------|
| <b>ASTM Data</b>                    |        |                   |               |
| Mold Shrinkage, MD                  | 0.0035 | mm/mm             | ASTM D 955    |
| Density, 73 °F                      | 1250   | kg/m <sup>3</sup> | ASTM D 792    |

| Mechanical Properties                  | Value | Unit | Test Standard |
|----------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                        |       |      |               |
| Yield stress                           | 46    | MPa  | ISO 527       |
| Yield strain                           | 5.7   | %    | ISO 527       |
| Stress at Break                        | 48    | MPa  | ISO 527       |
| Strain at Break                        | 250   | %    | ISO 527       |
| Flexural Modulus (23 °C)               | 1960  | MPa  | ISO 178       |
| Flexural strength                      | 76    | MPa  | ISO 178       |
| <b>ASTM Data</b>                       |       |      |               |
| Rockwell Hardness                      | R 115 | -    | ASTM D 785    |
| Notched Impact Strength (Izod), 1/8 in | 860   | J/m  | ASTM D 256    |

| Thermal Properties                        | Value | Unit | Test Standard |
|-------------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                           |       |      |               |
| Temp. of deflection under load (1.80 MPa) | 73    | °C   | ISO 75-1/-2   |
| Temp. of deflection under load (0.45 MPa) | 83    | °C   | ISO 75-1/-2   |

| Optical Properties  | Value | Unit | Test Standard |
|---------------------|-------|------|---------------|
| <b>ASTM Data</b>    |       |      |               |
| Haze                | 1     | %    | ASTM D 1003   |
| Light Transmittance | 90    | %    | ASTM D 1003   |

### Characteristics

#### Processing

Additive Manufacturing

#### Certifications

Contains renewable resources

#### Special Characteristics

Transparent

### Disclaimer

#### Liability Exclusion

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