

CELCON® F15-33HC

CELCON®

CELCON® F15-33HC is a toughness-improved (medium-high viscosity) for general injection molding. Features greater stiffness compared to general POM copolymer

Product information

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|----------------------|-------|-----------|
| Resin Identification | POM | ISO 1043 |
| Part Marking Code | >POM< | ISO 11469 |

Rheological properties

| | | |
|----------------------------------|-------------|-----------------|
| Melt mass-flow rate | 5.5 g/10min | ISO 1133 |
| Melt mass-flow rate, Temperature | 190 °C | |
| Melt mass-flow rate, Load | 2.16 kg | |
| Moulding shrinkage, parallel | 2.0 % | ISO 294-4, 2577 |

Typical mechanical properties

| | | |
|--------------------------------------|-----------------------|--------------|
| Tensile stress at yield, 50mm/min | 68 MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 10 % | ISO 527-1/-2 |
| Nominal strain at break | 30 % | ISO 527-1/-2 |
| Flexural modulus | 2580 MPa | ISO 178 |
| Flexural strength | 90 MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 8.5 kJ/m ² | ISO 179/1eA |

Thermal properties

| | | |
|--|-----------|----------------|
| Melting temperature, 10°C/min | 170 °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 96 °C | ISO 75-1/-2 |
| Coefficient of linear thermal expansion (CLTE), parallel | 120 E-6/K | ISO 11359-1/-2 |

Flammability

| | | |
|-------------------------------|----------|-----------------|
| Burning Behav. at thickness h | HB class | IEC 60695-11-10 |
| Thickness tested | 3 mm | IEC 60695-11-10 |

Electrical properties

| | | |
|-------------------|----------|-------------|
| Electric strength | 19 kV/mm | IEC 60243-1 |
|-------------------|----------|-------------|

Physical/Other properties

| | | |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.2 % | Sim. to ISO 62 |
| Density | 1410 kg/m ³ | ISO 1183 |

Characteristics

| | |
|---------------|--------------------|
| Processing | Injection Moulding |
| Delivery form | Pellets |

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