

CELCON® F30-03HC LOF

CELCON®

CELCON® F30-03HC LOF is an easy-flowing grade for general injection molding and a low-emission grade featuring thermal stability. Suitable for multi-cavity molds and thin-walled part. Suitable for injection molding application and features greater mechanical strength compared to general POM copolymer.

Product information

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

Rheological properties

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|----------------------------------|------------|-----------------|
| Melt mass-flow rate | 27 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

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|--------------------------------------|---------------------|--------------|
| Tensile stress at yield, 50mm/min | 67 MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 8 % | ISO 527-1/-2 |
| Nominal strain at break | 22 % | ISO 527-1/-2 |
| Flexural modulus | 2750 MPa | ISO 178 |
| Flexural strength | 93 MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 6 kJ/m ² | ISO 179/1eA |

Thermal properties

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|---|--------|----------------|
| Melting temperature, 10°C/min | 170 °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 100 °C | ISO 75-1/-2 |

Flammability

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

Physical/Other properties

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

Characteristics

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|-------------------------|--------------------------|
| Processing | Injection Moulding |
| Delivery form | Pellets |
| Special characteristics | High Flow, Low emissions |