Celanese
The chemistry inside innovation™

KEPITAL® F20-52 LOF2

POM, unfilled, medium viscosity, UV stabilized, low emission, improved heat stability
A UV-stabilized (medium-viscosity) grade for general injection molding.
A low-emission grade featuring improved heat stability
Developed for application in automotive interiors or exteriors

Product information

Part Marking Code	> POM <	ISO 11469

Rheological properties

Moulding shrinkage, parallel	2.0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2600	MPa	ISO 527-1/-2
Yield stress, 50mm/min	62	MPa	ISO 527-1/-2
Yield strain, 50mm/min	10	%	ISO 527-1/-2
Nominal strain at break	34	%	ISO 527-1/-2
Flexural Modulus	2350	MPa	ISO 178
Flexural Strength	83	MPa	ISO 178
Charpy notched impact strength, 23°C	6	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5.5	kJ/m²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	92	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	130	E-6/K	ISO 11359-1/-2

Electrical properties

Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2
Electric strength	19	kV/mm	IEC 60243-1

Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density	1410	kg/m³	ISO 1183

Injection

Drying Temperature	80 - 90	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	0.1	%
Max. mould temperature	60 - 80	°C
Back pressure	2	MPa

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Additional information

Injection molding	mold temperature: 60°C ~ 80°C (140°F ~ 176°F) barrel temperature: 170°C ~ 190°C (338°F ~ 374°F) screw speed: 150mm/s ~ 200mm/s back pressure: max. 20 bar

Processing Texts

Pre-drying	It is recommended to dry material at 80°C ~ 90°C (176°F ~ 194°F) for 3h ~ 4h if necessary. suggest max. moisture: 0.1%
Injection molding	mold temperature: 60°C ~ 80°C (140°F ~ 176°F) barrel temperature: 170°C ~ 190°C (338°F ~ 374°F) screw speed: 150mm/s ~ 200mm/s back pressure: max. 20 bar

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