

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		ISO 527-1/-2
Yield stress, 50mm/min		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		ISO 178
Flexural Strength Charpy notched impact strength, 23°C		MPa kJ/m²	ISO 178 ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m ²	ISO 179/1eA
Charpy holdried impact strength, -50° C	5.5	NO/III	130 173/16A
Thermal properties			
Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	92		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		
Back pressure	2	MPa	

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Additional information

Injection molding mold temperature: $60 \,^{\circ}\text{C} \sim 80 \,^{\circ}\text{C} (140 \,^{\circ}\text{F} \sim 176 \,^{\circ}\text{F})$

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%

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