Kepital® F20-03

Acetal (POM) Copolymer Korea Engineering Plastics Co., Ltd

Technical Data

Product Description				
A medium-viscosity grade for general injection molding				
General				
Material Status	Commercial: Active			
Literature ¹	Technical Datasheet (English)			
UL Yellow Card ²	• E120354-220441			
Search for UL Yellow Card	 Korea Engineering Plastics C Kepital® 	o., Ltd		
Availability	 Asia Pacific 	• Europe	North America	
Features	Copolymer	 General Purpose 	 Medium-high Viscosity 	
Uses	General Purpose			
RoHS Compliance	 RoHS Compliant 			
Processing Method	 Injection Molding 			
Resin ID (ISO 1043)	• POM			

Physical	Nominal Value Unit	Test Method
Density	1.41 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0 g/10 min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	2.0 %	Internal Method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2750 MPa	ISO 527-1
Tensile Stress	65.0 MPa	ISO 527-2
Tensile Strain (Yield)	10 %	ISO 527-2
Nominal Tensile Strain at Break	32 %	ISO 527-2
Flexural Modulus	2550 MPa	ISO 178
Flexural Stress	87.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	5.5 kJ/m ²	
23°C	6.5 kJ/m ²	
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	100 °C	
Melting Temperature	165 °C	ISO 11357-3
CLTE - Flow	1.2E-4 cm/cm/°C	ISO 11359-2
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+16 ohms	IEC 60093
Volume Resistivity	1.0E+14 ohms cm	IEC 60093
Electric Strength	19 kV/mm	IEC 60243-1
Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94

Injection	Nominal Value Unit	
Drying Temperature	80 to 90 °C	
Drying Time	3.0 to 4.0 hr	
Suggested Max Moisture	0.10 %	
Hopper Temperature	60 to 80 °C	
Rear Temperature	170 to 180 °C	
Middle Temperature	180 to 190 °C	

1 of 2

UL LLC ©2024. All rights reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content. Form No. TDS-15924-en Document Created: Thursday, June 27, 2024 Added to Prospector: November 2000 Last Updated: 11/4/2021

Kepital® F20-03

Acetal (POM) Copolymer Korea Engineering Plastics Co., Ltd



Injection	Nominal Value Unit
Front Temperature	190 to 200 °C
Nozzle Temperature	180 to 210 °C
Mold Temperature	60 to 80 °C
Back Pressure	< 2.00 MPa

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.



2 of 2

UL LLC ©2024. All rights reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content. Form No. TDS-15924-en Document Created: Thursday, June 27, 2024 Added to Prospector: November 2000 Last Updated: 11/4/2021