KOCETAL® LF302

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

Kocetal LF302 is special lubricant added grade for low friction and dimensional stability.

General Information			
Additive	Lubricant		
Features	Good Dimensional Stability Good Wear Resistance Low Friction Lubricated Noise Damping		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.43	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60%RH)	0.21	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	82		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 23°C)	55.0	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	50	%	ASTM D638
Flexural Modulus (23°C)	2700	MPa	ASTM D790
Flexural Strength (23°C)	85.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	130	°C	
Melting Temperature	166	°C	
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohms	ASTM D257

Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant	3.70		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	30	%	
Rear Temperature	160 to 180	°C	
Middle Temperature	180 to 190	°C	
Front Temperature	190 to 200	°C	
Nozzle Temperature	190 to 200	°C	
Processing (Melt) Temp	< 230	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	49.0 to 78.5	MPa	
Holding Pressure	29.4 to 49.0	MPa	
Back Pressure	0.981 to 2.94	MPa	

Recommended distributors for this material

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