

KOCETAL® UR302

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® UR302 is impact strength modified grade suitable for fastener and switch.

General Information			
Additive	TPU impact modifier		
Features	Impact modification		
	Impact resistance, good		
	Good flexibility		
	Good toughness		
Uses	Fasteners		
	Switch		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	9.0	g/10 min	ASTM D1238
190°C/2.16 kg	8.5	g/10 min	ISO 1133
Molding Shrinkage			
Flow	1.8	%	ASTM D955
Transverse flow	2.1	%	ISO 294-4
Flow	2.1	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.58	%	ISO 62
Balanced, 23°C, 60% RH	0.24	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class m	78		ASTM D785
M scale	91		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	53.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Fracture, 23°C	90	%	ASTM D638
Fracture, 23°C	> 50	%	ISO 527-2

Flexural Modulus			
23°C	2100	MPa	ASTM D790
23°C	2300	MPa	ISO 178
Flexural Strength			
23°C	75.0	MPa	ASTM D790
23°C	66.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	97	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	152	°C	ASTM D648
1.8 MPa, not annealed	90.0	°C	ASTM D648
1.8 MPa, not annealed	77.0	°C	ISO 75-2/A
Melting Temperature	166	°C	ASTM D1525, ISO 11357-3
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257, IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257, IEC 60093
Dielectric Strength	19	kV/mm	ASTM D149, IEC 60243-1
Dielectric Constant	3.70		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80 - 90	°C	
Drying Time	3.0	hr	
Rear Temperature	180	°C	
Middle Temperature	190	°C	
Front Temperature	190	°C	
Nozzle Temperature	200	°C	
Processing (Melt) Temp	< 220	°C	
Mold Temperature	60 - 80	°C	

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