

KOCETAL® EL304BK

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® EL304BK is an Acetal (POM) Copolymer product. It is available in Asia Pacific, Europe, Latin America, or North America. Applications of KOCETAL® EL304BK include electrical/electronic applications and engineering/industrial parts.

Characteristics include:

Flame Rated

Impact Modified

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
Uses	Fasteners		
	Switches		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.7	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.25	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	76		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	43.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	75	%	ASTM D638
Flexural Modulus (23°C)	1700	MPa	ASTM D790
Flexural Strength (23°C)	59.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, Unannealed	144	°C	
1.8 MPa, Unannealed	82.0	°C	
Melting Temperature	166	°C	ASTM D1525
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

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