

KOCETAL® WR303

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® WR303 is an Acetal (POM) Copolymer product. It is available in Asia Pacific, Europe, Latin America, or North America. Typical application: Outdoor Applications.
Characteristics include:
Flame Rated
Good UV Resistance
UV Stabilized

General Information			
Additive	Hydrolysis Resistant		
	UV Stabilizer		
Features	Good UV Resistance		
	Hydrolysis Resistant		
Uses	Outdoor Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.4	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	61.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	50	%	ASTM D638
Flexural Modulus (23°C)	2400	MPa	ASTM D790
Flexural Strength (23°C)	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	51	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, Unannealed	158	°C	
1.8 MPa, Unannealed	110	°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+13	ohms	ASTM D257
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant	3.70		ASTM D150
Dissipation Factor (1 MHz)	0.060		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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