

PRODUCT INFORMATION

Metric & SI unit

Acetal Copolymer
KEPITAL®

KOREA ENGINEERING PLASTICS CO.,LTD.

FM2020

A medium viscosity grade for general injection molding. It was modified with MoS₂, and so suitable for parts requiring a good friction & wear resistance and also high stiffness.

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	—	1.43
Water Absorption 23℃, 60%RH	ASTM D570	%	0.22
Thermal			
Melt Index 190℃, 2.16 kg	ASTM D1238	g/10min	10
Melting Point 10℃/min	ASTM D3418	℃	165
Heat Deflection Temperature 4.6kg _f /cm ² (0.5MPa)	ASTM D648	℃	124
18.6kg _f /cm ² (1.8MPa)			13
Coeff. of Linear Thermal Expansion 20~80℃	ASTM D696	x 10 ⁻⁵ cm/cm/℃	13
Flammability t 0.8mm	UL94	—	HB
Mechanical			
Tensile Strength 23℃	ASTM D638	kg _f /cm ² (MPa)	635 (62)
Tensile Elongation 23℃	ASTM D638	%	50
Flexural Strength 23℃	ASTM D790	kg _f /cm ² (MPa)	920 (90)
Flexural Modulus 23℃	ASTM D790	x 10 ⁴ kg _f /cm ² (MPa)	2.70 (2,600)
Shear Strength t 2mm	ASTM D732	kg _f /cm ² (MPa)	6.8 (67)
Notched Izod Impact Strength t 3.2mm	ASTM D256	kg _f · cm/cm (J/m)	M80
Rockwell Hardness M scale	ASTM D785	—	
Electrical			
Dielectric Constant 10 ⁶ Hz	ASTM D150	—	
Dielectric Dissipation Factor 10 ⁶ Hz	ASTM D150	—	
Surface Resistivity	ASTM D257	Ω	1 x 10 ¹⁶
Volume Resistivity	ASTM D257	Ω · cm	1 x 10 ¹⁴
Dielectric Strength	ASTM D149	kV/mm	
Molding Shrinkage (//Direction) t 3mm, Φ 100mm		%	2.0



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Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	—	1.43
Water Absorption 23℃ (73°F), 60%RH	ASTM D570	%	0.22
Thermal			
Melt Index 190℃, 2.16 kg	ASTM D1238	g/10min	10
Melting Point 10℃/min	ASTM D3418	℃ (°F)	165 (329)
Heat Deflection Temperature 4.6kg _f /cm ² (64psi)	ASTM D648	℃ (°F)	124 (255)
18.6kg _f /cm ² (264psi)			
Coeff. of Linear Thermal Expansion 20~80℃	ASTM D696	x 10 ⁻⁵ cm/cm/℃	13
Flammability t 0.8mm(t 0.03in)	UL94	—	HB
Mechanical			
Tensile Strength 23℃ (73°F)	ASTM D638	kg _f /cm ² (psi)	635 (9,000)
Tensile Elongation 23℃ (73°F)	ASTM D638	%	50
Flexural Strength 23℃ (73°F)	ASTM D790	kg _f /cm ² (x 10 ³ psi)	920 (13.1)
Flexural Modulus 23℃ (73°F)	ASTM D790	x 10 ⁴ kg _f /cm ² (x 10 ⁴ psi)	2.70 (38.4)
Shear Strength t 2mm (t 0.08in)	ASTM D732	kg _f /cm ² (psi)	
Notched Izod Impact Strength t 3.2mm (t 0.126in)	ASTM D256	kg _f · cm/cm(ft · lb/in)	6.8 (1.2)
Rockwell Hardness M scale	ASTM D785	—	M80
Electrical			
Dielectric Strength 10 ⁶ Hz	ASTM D150	—	
Dielectric Dissipation Factor 10 ⁶ Hz	ASTM D150	—	
Surface Resistivity	ASTM D257	Ω	1 x 10 ¹⁶
Volume Resistivity	ASTM D257	Ω · cm	1 x 10 ¹⁴
Dielectric Strength	ASTM D149	kV/mm	
Molding Shrinkage (//Direction) t 3mm, Φ 100mm		%	2.0

