

PRODUCT INFORMATION(Metric and SI unit)

Acetal Copolymer
KEPITAL®

KOREA ENGINEERING PLASTICS CO.,LTD.

F25-03H

A medium-low viscosity grade for general injection molding with high-stiffness. It has improved on thermal stability.

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	—	1.41
Water Absorption 23 °C, 60%RH	ASTM D570	%	0.22
Thermal			
Melt Index	ASTM D1238	g/10min	13
Melting Point 10 °C/min	DSC Method	°C	165
Heat Deflection Temperature 4.6kgf/cm ² (0.5MPa)	ASTM D648	°C	158
18.6kgf/cm ² (1.8MPa)			112
Coeff. of Linear Thermal Expansion 20 ~ 80 °C	ASTM D696	x 10 ⁻⁵ cm/cm/°C	13
Flammability t 0.8mm	UL94	—	HB
Mechanical			
Tensile Strength 23 °C	ASTM D638	kgf/cm ² (MPa)	660 (65)
Tensile Elongation 23 °C	ASTM D638	%	55
Flexural Strength 23 °C	ASTM D790	kgf/cm ² (MPa)	950 (93)
Flexural Modulus 23 °C	ASTM D790	x 10 ⁴ kgf/cm ² (MPa)	2.85 (2,790)
Shear Strength t 2mm	ASTM D732	kgf/cm ² (MPa)	570 (56)
Notched Izod Impact Strength t 3.2mm	ASTM D256	kgf cm/cm (J/m)	7 (69)
Rockwell Hardness M scale	ASTM D785	—	M82
Electrical			
Dielectric Constant 10 ⁶ Hz	ASTM D150	—	3.7
Dielectric Dissipation Factor 10 ⁶ Hz	ASTM D150	—	0.007
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	19
Molding Shrinkage (//Direction) t 3mm, Φ 100mm		%	2.0



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A medium-low viscosity grade for general injection molding. It has improved on stiffness highly.

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	—	1.41
Water Absorption 23 °C (73°F), 60%RH	ASTM D570	%	0.22
Thermal			
Melt Index	ASTM D1238	g/10min	13
Melting Point 10 °C/min	DSC Method	°C (°F)	165 (329)
Heat Deflection Temperature 4.6kgf/cm ² (64psi)	ASTM D648	°C (°F)	158 (316)
18.6kgf/cm ² (264psi)			112 (234)
Coeff. of Linear Thermal Expansion 20 ~ 80 °C	ASTM D696	x 10 ⁻⁵ cm/cm/°C	13
Flammability t 0.8mm (t 0.03in)	UL94	—	HB
Mechanical			
Tensile Strength 23 °C (73°F)	ASTM D638	kgf/cm ² (psi)	660 (9,360)
Tensile Elongation 23 °C (73°F)	ASTM D638	%	55
Flexural Strength 23 °C (73°F)	ASTM D790	kgf/cm ² (x 10 ³ psi)	950 (13.5)
Flexural Modulus 23 °C (73°F)	ASTM D790	x 10 ⁴ kgf/cm ² (x 10 ⁴ psi)	2.85 (40.5)
Shear Strength t 2mm (t 0.08in)	ASTM D732	kgf/cm ² (psi)	570 (8,140)
Notched Izod Impact Strength t 3.2mm (t 0.126in)	ASTM D256	kgf cm/cm (ft lb/in)	7 (1.3)
Rockwell Hardness M scale	ASTM D785	—	M82
Electrical			
Dielectric Strength 10 ⁶ Hz	ASTM D150	—	3.7
Dielectric Dissipation Factor 10 ⁶ Hz	ASTM D150	—	0.007
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	19
Molding Shrinkage (//Direction) t 3mm, Φ 100mm		%	2.0

