PRODUCT INFORMATION Metric & SI unit

Acetal Copolymer

KEPITAL®

KOREA ENGINEERING PLASTICS CO.,LTD.

TS-22

A medium viscosity grade for general injection molding. It was modified with special type silicone, and so suitable for use needing a high limiting PV value and a good friction & wear resistance.

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	–	1.40
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	℃	
	18.6kg_f/cm^2 (1.8MPa)			113
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)	575 (56)
Tensile Elongation	23℃	ASTM D638	%	95
Flexural Strength	23℃	ASTM D790	kg_f/cm^2 (MPa)	815 (80)
Flexural Modulus	23℃	ASTM D790	x 10^4 kg_f/cm^2 (MPa)	2.45 (2,400)
Shear Strength	t 2mm	ASTM D732	kg_f/cm^2 (MPa)	
Notched Izod Impact Strength	t 3.2mm	ASTM D256	kg_f · cm/cm (J/m)	7.0 (69)
Rockwell Hardness	M scale	ASTM D785	–	M80
Electrical				
Dielectric Constant	10^6Hz	ASTM D150	–	
Dielectric Dissipation Factor	10^6Hz	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

PRODUCT INFORMATION **Metric & US unit**

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A medium viscosity grade for general injection molding. It was modified with special type silicone, and so suitable for use needing a high limiting PV value and a good friction & wear resistance.

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	–	1.40
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)	
	18.6kg_f/cm^2 (264psi)			113 (235)
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)	575 (8,200)
Tensile Elongation	23℃(73°F)	ASTM D638	%	95
Flexural Strength	23℃(73°F)	ASTM D790	kg_f/cm^2 (x 10^3psi)	815 (11.6)
Flexural Modulus	23℃(73°F)	ASTM D790	x $10^4$$kg_f/cm^2$ (x 10^4 psi)	2.45 (34.8)
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)	7.0 (1.3)
Rockwell Hardness	M scale	ASTM D785	–	M80
Electrical				
Dielectric Strength	10^6Hz	ASTM D150	–	
Dielectric Dissipation Factor	10^6Hz	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