Kareline® POMS6040

Acetal (POM) Copolymer

Plasthill Oy

Message:

The matrix plastic of Kareline[®] POMS is co-polyacetal (POM). The fibre used is ECF bleached long fibre Nordic soft wood pulp (cellulose). The fibre content of Kareline[®] POMS composites is 10-40 weight% (for example Kareline[®] POMS6040, Kareline[®] POMS7030). Customers made grades are also available.

Kareline® POMS composites have a lot of good properties: High rigidity Good impact strength as natural fibre composite Excellent abrasion resistance Good chemical and stress cracking resistance Easy to machine Low friction surfaces Small shrinkages in injection moulding Dimensional stability and absence of shrink marks

General Information			
Filler / Reinforcement	Wood Fiber		
Features	Copolymer		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Weather Resistance		
	High ESCR (Stress Crack Resist.)		
	High Rigidity		
	Low Friction		
	Low Shrinkage		
	Machinable		
	Paintable		
	Renewable Resource Content		
	Thermally Insulating		
	Ultrasonic Weldable		
Appearance	Brown		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/10.0		_	
kg)	14.8	cm³/10min	ISO 1133
Molding Shrinkage	1.3	%	
Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore D, 23°C)	83		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4300	MPa	ISO 527-2
Tensile Stress (Yield)	74.1	MPa	ISO 527-2
Tensile Strain (Yield)	3.1	%	ISO 527-2
Flexural Modulus	6500	MPa	ISO 178
Tensile Strength/Weight Ratio	52.0	MPa/g/cm ³	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.3	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	
Continuous Use Temperature	-40.0 to 110	°C	
Flammability	Nominal Value		Test Method
Flame Rating	НВ		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	180	°C	
Middle Temperature	190	°C	
Front Temperature	195	°C	
Nozzle Temperature	200	°C	
Processing (Melt) Temp	< 210	°C	
Mold Temperature	20.0 to 60.0	°C	
Injection Pressure	< 100	MPa	

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