Kareline® PSMS6040

Specialty Polystyrene

Plasthill Oy

Message:

The matrix plastic of Kareline® PSMS is polystyrene. The fibre used is ECF bleached long fibre Nordic soft wood pulp (cellulose). The fibre content of Kareline® PSMS composites is normally 10-20 weight% (Kareline® PSMS9010, Kareline® PSMS8020). Customer tailor-made grades, e.g. with higher fibre content, are available.
Kareline® PSMS gives a very beautiful natural appearance to products in applications where no absolute mechanical properties are needed but where excellent surface quality and fascinating outlook are a desired property e.g. packaging of cosmetics or jewellery. Material has also very good dimensional stability in moulding and as a product.
Kareline® PSMS composites have a lot of good properties:
High rigidity
Excellent abrasion resistance
Pleasant feel of surface and beautiful natural surface appearance
Problem-free surface treatment
Good dimensional stability

General Information	
Filler / Reinforcement	Wood Fiber
Features	Electrically Insulating
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Dimensional Stability
	Good Weather Resistance
	High ESCR (Stress Crack Resist.)
	High Rigidity
	Laser Markable
	Machinable
	Outstanding Surface Finish
	Paintable
	Pleasing Surface Appearance
	Renewable Resource Content
	Thermally Insulating
	Ultrasonic Weldable
Uses	Cosmetic Packaging
	Packaging
Appearance	Light Brown
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	ISO 1183

Melt Volume-Flow Rate (MVR) (200°C/10.0 kg)	2.96	cm^3/10min	ISO 1133
Molding Shrinkage	0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield)	44.8	MPa	ISO 527-2
Tensile Strain (Yield)	2.2	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Tensile Strength/Weight Ratio	39.0	MPa/g/cm^3	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	1.6	kJ/m^2	ISO 179
Thermal	**Nominal Value**	**Unit**	
Continuous Use Temperature	-20.0 to 100	°C	
Flammability	**Nominal Value**		**Test Method**
Flame Rating [1]	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	200	°C	
Middle Temperature	195	°C	
Front Temperature	190	°C	
Nozzle Temperature	180	°C	
Processing (Melt) Temp	< 210	°C	
Mold Temperature	20.0 to 50.0	°C	
Injection Pressure	< 100	MPa	
NOTE			
1.	23°C, 50%RH, 48h		

Recommended distributors for this material

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