Kareline® ABMS6040

Acrylonitrile Butadiene Styrene

Plasthill Oy

Message:

The matrix plastic of Kareline® ABMS is Acrylonitrile-butadiene-styrene (ABS). The fibre used is ECF bleached long fibre Nordic soft wood pulp (cellulose). The fibre content of Kareline® ABMS composites is normally 10 - 30 weight% (for example Kareline® ABMS7030). Customer tailor-made grades, e.g. with higher fibre content, are available.
Injection mouldable Kareline® ABMS composites can be used in various products because of its good balance of properties, toughness/strength/temperature resistance coupled with its ease of moulding and good surface finish.
Kareline® ABMS composites are excellent raw materials for technical applications e.g. in car, telecom or electronics industries, covers, handles, but also for household appliances, decorative parts, furniture and interior design. If needed, it is possible to have Kareline® ABMS products with very beautiful and living surface structure and colours.
Kareline® ABMS 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
Pleasant feel of surface and good surface quality; if needed very beautiful living/natural surface is possible
Good acoustic properties
Problem-free surface treatment

General Information	
Filler / Reinforcement	Wood Fiber
Features	Electrically Insulating
	Food Contact Acceptable
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Dimensional Stability
	Good Impact Resistance
	Good Moldability
	Good Surface Finish
	Good Weather Resistance
	High ESCR (Stress Crack Resist.)
	High Rigidity
	Laser Markable
	Machinable
	Paintable
	Renewable Resource Content
	Thermally Insulating
	Ultrasonic Weldable
Uses	Appliances
	Automotive Applications
	Decorative Parts

Electrical/Electronic Applications

Furniture

Handles

Household Goods

Protective Coverings

Simulated Wood Parts

Telecommunications

Appearance	Brown		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.18	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/10.0 kg)	1.50	cm³/10min	ISO 1133
Molding Shrinkage	0.50	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 23°C)	80		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield)	49.5	MPa	ISO 527-2
Tensile Strain (Yield)	2.7	%	ISO 527-2
Flexural Modulus	4800	MPa	ISO 178
Tensile Strength/Weight Ratio	42.0	MPa/g/cm³	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	1.8	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	
Continuous Use Temperature	-30.0 to 100	°C	
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		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 50.0	°C	
Injection Pressure	< 100	MPa	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China