POLYLAC 765 A

Propiedad	ISO	Condición	Unidad	Valor
MVI	1133	220°c x 10kg	ml/10min	46
Vicat	306	B/50	°C	80
HDT /A	75	1,80 Mpa	°C	90
Impacto Izod	180/1A	Entallado	Kj/m2	19
Impacto Charpy	179	Entallado	Kj/m2	20
Resistencia a la tracción	527	50mm/min	Mpa	39
Alargamiento	527	50mm/min	%	10
Resistencia a la flexión	178	2mm/min	Mpa	54
Modulo de flexión	178	2mm/min	Gpa	1,7
Dureza penetración bola	2039-1	H358/30		74
Inflamibilidad			UL - 94	V-0
Densidad	1183	23°C	g/cm3	1,17

Properties of POLYLAC®

Fire Performance

Spontaneous combustion temperature of ABS polymers in air is about 500°C. Minimum flash ignition temperature is about 330°C. All general-purpose POLYLAC® grades are rated UL-94 (1/16" HB.) Flame retardant grades compliant with UL vertical burning rating are also available. For additional information regarding other fire rating standards of POLYLAC® please contact our authorized agents for more information.

Electrical Properties

Electrical properties of POLYLAC® are only minimally affected by temperature, humidity, and frequency; therefore, make it an ideal material for molded components in electronic applications. The styrene component of ABS contributes to the excellent volume resistance and dielectric strength of POLYLAC®.

Electrostatic Behavior

POLYLAC® , like other plastics, is an electrically insulating material, thus any electrostatic charges in the material may be retained for a period of time. Anti-static agents may be added during compounding to eliminate the tendency of charge build up. Anti-static POLYLAC® is also available for electronic and other applications. Please refer to our catalogue for further information on anti-static grade POLYLAC® .

Chemical Resistance

POLYLAC® is inherently resistant to chemicals. It is not affected by alkalis, dilute organic and inorganic acids, aliphatic hydrocarbons (e.g. white spirit), nor by most oils and greases. However, aromatics, ketones, ethers, esters, and chlorinated hydrocarbons (except perchloroethylene) can cause swelling or dissolution. It is therefore recommended that these solvents should not come into contact with POLYLAC® ABS.

Apart from reagents, other factors which could influence the chemical resistance of POLYLAC® , such as time, temperature variations, and loads, should also be taken into consideration during the design and fabrication process of the molded parts. It is important to keep in mind that the damaging effect of chemicals or other substances coming into contact with POLYLAC® may be intensified if the molded part is subjected to external or internal stress, elevated temperatures, or the combined action of different chemicals. Testing under simulated service conditions is always recommended before mass production.

Resistance to Weathering

The quality of most materials deteriorates if they are exposed to the weather for long periods of time. For ABS mouldings, and hence also for POLYLAC® , exposure to direct sunlight is particularly harmful. Yellowing of the material gradually leads to changes in most color shades. The surfaces of the mouldings lose their gloss, become harder and rough. If objects damaged in this way, a marked reduction in their initial toughness is noticeable. Whether or not an ABS part can be used successfully in outdoor applications depends on the extent to which it is affected by these changes.

The surfaces of ABS mouldings can also be given special protection by laminating them with weather-resistant film or by painting, preferably with tough and flexible polyurethane coatings.

Health Aspect and the Food Law

As a raw material, at the processing stage, and as a finished article in use, POLYLAC® meets all the relevant requirements relating to industrial hygiene, occupational physiology and general health.

POLYLAC® is widely used in the manufacture of articles designed or likely to come into contact with foodstuff. These articles must satisfy both national and international recommendations and regulations for food contact applications.

The regulations in force in different countries are not all identical and are also subject to revision from time to time. For this reason, it is not possible to make a generally valid statement about the suitability of individual POLYLAC® grades. In case of doubt, customers are advised to check with Chi Mei's Technical Service Department.