

Akulon® GA-XLG6

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This guick start instruction gives an indication of the key settings for processing Akulon[®] GA-XLG6 to ensure best crystallization and prevent material degradation as a result of hydrolysis or thermal load. It is a summary of the Injection Molding Recommendations which can be found in our Plastics Finder at https://plasticsfinder.com. Our online guidelines are recommendations to help with material processing and/or to evaluate and resolve potential processing issues.

MATERIAL HANDLING

Druina

Akulon[®] grades are hygroscopic and absorb moisture from the air relatively quickly. Moisture absorption is fully reversible under the following drying conditions without compromising material quality. Preferred driers are de-humidified driers with dew points maintained between -30 and -40° C /-22 and -40° F. Vacuum driers with N₂ purge can also be used. Hot air ovens or hopper driers are not suitable for pre-druing Akulon[®] grades; the use of such driers may result in non-optimum performance.

Moisture content	Time	Temperature	
[%]	[h]	[° C]	[° F]
0.1–0.2 and as delivered	2–4	80	176
0.2–0.5	4–8	80	176

Drier types that are not de-humidified can be operated until 100°C but care has to be taken with natural/light colors for which a color change might be observed upon druing depending on time/temperature exposure.

TEMPERATURE SETTINGS

Barrel temperature

Optimal settings are governed by barrel size and residence time. Furthermore, the level of glass and/or mineral reinforcement and the presence or absence of flame retardant have to be taken into account.

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Mold/Tool	Measured melt	Nozzle	Front	Center	Rear	
50 – 80°C 122 – 176°F	250–285°C <i>482–545°F</i>	260–280°C 500–536°F	265–280°C 509–536°F	265–275°C 509–527°F	255–265°C 491–509°F	

MELT RESIDENCE TIME

The optimal Melt Residence Time (MRT) for Akulon[®] GA–XLG6 is \leq 6 minutes with preferably at least 50% of the maximal shot volume used. The MRT should not exceed 10 minutes. A full self-service MRT calculation can be done using the following link.

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Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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