



ZENITE® LKX1858 - LCP

Description

High flow LCP

Zenite LKX1858 is a high flow, low warpage LCP with balanced mechanicals and processability

Physical properties	Value	Unit	Test Standard
Density	1620	kg/m³	ISO 1183
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	10818	MPa	ISO 527-1, -2
Tensile stress at break, 5mm/min	98	MPa	ISO 527-1, -2
Tensile strain at break, 5mm/min	1.61	%	ISO 527-1, -2
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Thermal properties	Value	Unit	Test Standard
Melting temperature, 20°C/min	319	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	268	°C	ISO 75-1, -2
Flammability at thickness h	V-0	class	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit	
Necessary low maximum residual moisture content	0.01	%	
Drying time	3	h	
Drying temperature	150	°C	
Temperature	Value	Unit	
Hopper temperature	20 - 30	°C	
Feeding zone temperature	40 - 60	°C	
Zone1 temperature	320 - 330	°C	
Zone2 temperature	335 - 345	°C	
Zone3 temperature	335 - 345	°C	
Zone4 temperature	335 - 345	°C	
Melt temperature	318	°C	
Mold temperature	80 - 120	°C	
Pressure	Value	Unit	
Injection pressure	500 - 1500	bar	
Hold pressure	500 - 1500	bar	
Back pressure max.	30	bar	

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General Disclaimer

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