Celanese
The chemistry inside innovation™

CELANYL® LXB3 UV MetaLX

CELANYL®

Product information

Resin Identification	PA6		ISO 1043
Part Marking Code	>PA6<		ISO 11469

Rheological properties

	dry/cond.		
Viscosity number	147 / *	cm^3/g	ISO 307, 1628
Moulding shrinkage, parallel	0.9 / -	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.9 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	3450 / 2200	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	77 / 48	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	4 / 15	%	ISO 527-1/-2
Flexural modulus	3300 / -	MPa	ISO 178
Flexural stress at 3.5%	95 / -	MPa	ISO 178
Charpy impact strength, 23°C	>100 / -	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	6 / 15	kJ/m^2	ISO 179/1eA
Hardness, Rockwell, R-scale	118 / -		ISO 2039-2
Poisson's ratio	0.37 / 0.39[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	64 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	169 / *	°C	ISO 75-1/-2

Flammability

FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 2 mm	35.8	mm/min	ISO 3795 (FMVSS 302)

Physical/Other properties

	dry/cond.		
Water absorption, 2mm	9.6 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m^3	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	260	°C
Min. melt temperature	235	°C
Max. melt temperature	270	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	70	°C
Min. mould temperature	50	°C

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Max. mould temperature	100	°C
Ejection temperature	179	°C

Characteristics

Processing	Injection Moulding
Special characteristics	U.V. stabilised or stable to weather, Specialty appearance, Low Warpage