LNP™ THERMOCOMP™ Lexan_JK500 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP* Thermocomp* Lexan_JK500 compound is a 10% GR, ECO conforming FR, PC+ABS for thinwall molding applications.

General Information			
UL YellowCard	E121562-221060		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	ECO Compliant Flame Retardant		
Uses	Thin-walled Parts		
Agency Ratings	EU Eco		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.27	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
260°C/2.16 kg	20	g/10 min	
300°C/1.2 kg	33	g/10 min	
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.10 to 0.25	%	
Across Flow : 3.20 mm	0.30 to 0.45	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	4830	MPa	ASTM D638
--	5250	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	68.3	MPa	ASTM D638
Yield	70.0	MPa	ISO 527-2/5
Break [3]	68.3	MPa	ASTM D638
Break	70.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	5.0	%	ASTM D638
Yield	2.1	%	ISO 527-2/5
Break [5]	5.0	%	ASTM D638
Break	2.1	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span [6]	4340	MPa	ASTM D790
-- [7]	4590	MPa	ISO 178
Flexural Stress			
--	115	MPa	ISO 178
Break, 50.0 mm Span [8]	117	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C [9]	5.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	320	J/m	ASTM D4812
23°C [10]	21	kJ/m²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	13.6	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	96.1	°C	
1.8 MPa, Unannealed, 3.20 mm	88.9	°C	
1.8 MPa, Unannealed, 6.40 mm	93.3	°C	
Vicat Softening Temperature			
--	110	°C	ASTM D1525 [11]
--	100	°C	ISO 306/B120
CLTE			
Flow : -40 to 40°C	4.3E-5	cm/cm/°C	ASTM E831
Flow : 23 to 80°C	4.3E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	7.2E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 80°C	8.3E-5	cm/cm/°C	ISO 11359-2
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	**Nominal Value**		**Test Method**
Flame Rating (0.991 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2 to 87.8	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	24	hr	
Suggested Shot Size	40 to 60	%	
Rear Temperature	260 to 277	°C	
Middle Temperature	271 to 288	°C	
Front Temperature	271 to 299	°C	
Nozzle Temperature	271 to 299	°C	
Processing (Melt) Temp	271 to 310	°C	

Mold Temperature	48.9 to 93.3	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	35 to 75	rpm
Vent Depth	0.038 to 0.076	mm

NOTE	
1.	5.0 mm/min
2.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	Rate B (120°C/h), Loading 2 (50 N)

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

WECHAT