

NORYL™ LTA6020 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics Asia Pacific

Message:

Unfilled NORYL Classico grade with high RTI rating (125 oC)

General Information			
UL YellowCard	E207780-100960606		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	4.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR)			ISO 1133
280°C/5.0 kg	8.00	cm ³ /10min	
300°C/5.0 kg	20.0	cm ³ /10min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2680	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	72.0	MPa	ASTM D638
Yield	71.0	MPa	ISO 527-2/50
Break	57.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	6.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/50
Break	8.0	%	ISO 527-2/50
Flexural Modulus			
100 mm Span ³	2580	MPa	ASTM D790
-- ⁴	2600	MPa	ISO 178
Flexural Stress			
--	105	MPa	ISO 178
Yield, 100 mm Span ⁵	105	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	18	kJ/m ²	ISO 179/2U
Notched Izod Impact			
23°C	220	J/m	ASTM D256
-40°C ⁶	8.0	kJ/m ²	ISO 180/1A
-30°C ⁷	8.0	kJ/m ²	ISO 180/1A
-20°C ⁸	10	kJ/m ²	ISO 180/1A
-10°C ⁹	11	kJ/m ²	ISO 180/1A

0°C ¹⁰	12	kJ/m ²	ISO 180/1A
23°C ¹¹	16	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ¹²	136	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 6.40 mm	126	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	123	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	155	°C	ISO 306/A120
--	144	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : -40 to 40°C	8.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	8.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	V-1		
1.50 mm	V-0		
2.50 mm	5VA		
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	825	°C	
1.50 mm	825	°C	
2.00 mm	825	°C	
3.00 mm	825	°C	
Injection	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	260 to 280	°C	
Middle Temperature	280 to 300	°C	
Front Temperature	270 to 290	°C	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	80.0 to 100	°C	
NOTE			
1.	Type I, 50 mm/min		
2.	Type I, 50 mm/min		
3.	2.6 mm/min		
4.	2.0 mm/min		
5.	2.6 mm/min		

6.	80*10*4
7.	80*10*4
8.	80*10*4
9.	80*10*4
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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