

NORYL™ LTA6020 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics Asia Pacific

Message:

Unfilled NORYL Classico grade with high RTI rating (125°C)

General Information			
UL YellowCard	E45329-100960629		
RoHS Compliance	RoHS compliance		
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	ISO 1133
300°C/5.0 kg	20.0	cm ³ /10min	ISO 1133
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
Fracture	57.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	6.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/50
Fracture	8.0	%	ISO 527-2/50
Flexural Modulus			
100mm span ³	2580	MPa	ASTM D790
-- ⁴	2600	MPa	ISO 178
Flexural Stress			
--	105	MPa	ISO 178
Yield, 100mm 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, 64.0mm span ¹²	136	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 6.40mm	126	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹³	123	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	155	°C	ISO 306/A120
--	144	°C	ISO 306/B120
Ball Pressure Test			
125°C	Pass		IEC 60695-10-2
135°C ¹⁴	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			
Flow: -40 to 40°C	8.0E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	8.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec	125	°C	UL 746
RTI Imp	125	°C	UL 746
RTI	125	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			
1.00 mm	V-1		UL 94
1.50 mm	V-0		UL 94
2.50 mm	5VA		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
1.00 mm	825	°C	IEC 60695-2-13
1.50 mm	825	°C	IEC 60695-2-13
2.00 mm	825	°C	IEC 60695-2-13
3.00 mm	825	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	260 - 280	°C	
Middle Temperature	280 - 300	°C	
Front Temperature	270 - 290	°C	
Processing (Melt) Temp	280 - 300	°C	

Mold Temperature	80.0 - 100	°C
NOTE		
1.	Type 1, 50mm/min	
2.	Type 1, 50mm/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	
14.	Approximate maximum	

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