

NORYL™ 6850C resin

Polyphenylene Ether + PS
SABIC Innovative Plastics Europe

Message:

NORYL 6850C is a PPO+PS extrusion grade, it is optimized for blending with polystyrene resins. It is suitable for (microwavable) food packaging and is compliant with US and European food contact regulations.

General Information			
Features	Food Contact Acceptable		
Uses	Blending		
	Food Packaging		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA Food Contact, Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	40.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.25	%	
Equilibrium, 23°C, 50% RH	0.060	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2540	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	70.0	MPa	
Break	70.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	5.0	%	
Break	5.0	%	
Flexural Modulus ¹	2580	MPa	ISO 178
Flexural Stress	107	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ²			ISO 179/1eA
-30°C	3.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Notched Izod Impact Strength ³			ISO 180/1A
-30°C	2.0	kJ/m ²	
23°C	4.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	125	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	151	°C	ISO 306/A120
--	143	°C	ISO 306/B50
--	145	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : -40 to 40°C	7.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (280°C, 1500 sec ⁻¹)	133	Pa·s	ISO 11443
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	240 to 260	°C	
Middle Temperature	260 to 280	°C	
Front Temperature	280 to 300	°C	
Nozzle Temperature	260 to 280	°C	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
1.	2.0 mm/min		
2.	80*10*4 sp=62mm		
3.	80*10*4		
4.	80*10*4 mm		

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