NORYL™ WCP921A resin

Polyphenylene Ether + TPE

SABIC Innovative Plastics

Message:

Flexible NORYL injection molding grade. Low specific gravity with good non-halogenated flame retardant performance. Developed for overmolding applications such as plugs, strain reliefs, and connectors. UL 94 V-0 performance with good processability. GreenScreen Approved.

General Information			
Features	Flame Retardant		
	Good Flexibility		
	Good Processability		
	Halogen Free		
	Low Density		
Uses	Connectors		
	Overmolding		
	Plugs		
	Strain Reliefs		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
210°C/5.0 kg	12	g/10 min	
250°C/2.16 kg	10	g/10 min	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40	%	
Across Flow : 24 hr	0.40	%	
Water Absorption [1] (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 30 sec)	92		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			
Break [2]	9.00	MPa	ASTM D638
Break	9.00	MPa	ISO 527-2/50
Tensile Elongation			
Break [3]	120	%	ASTM D638
Break	120	%	ISO 527-2/50
Flexural Modulus [4]			
100 mm Span	110	MPa	ASTM D790

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Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -40.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+15	ohms·cm	ASTM D257
Electric Strength (2.00 mm, in Oil)	23	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.80		IEC 60250
Dissipation Factor (1 MHz)	6.0E-3		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (6.00 mm)	V-0		UL 94
Glow Wire Flammability Index (3.00 mm)	850	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (3.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	24	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 80.0	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.010	%	
Suggested Shot Size	30 to 70	%	
Rear Temperature	180 to 220	°C	
Middle Temperature	210 to 240	°C	
Front Temperature	220 to 250	°C	
Nozzle Temperature	220 to 250	°C	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	3.00 to 10.0	MPa	
Screw Speed	30 to 80	rpm	
Vent Depth	0.030 to 0.050	mm	
NOTE			
1.	Results measured at 48 hrs		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	13 mm/min		

Recommended distributors for this material

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