

NORYL™ WCP700 resin

Polyphenylene Ether + TPE

SABIC Innovative Plastics

Message:

Flexible PPE-TPE injection grade suitable for over-molding applications such as plugs, strain relief's, and connectors. Good processability. 70 Shore A hardness.

General Information			
Features	Good Flexibility		
	Good Processability		
Uses	Connectors		
	Overmolding		
	Plugs		
	Strain Reliefs		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	10	g/10 min	
210°C/5.0 kg	17	g/10 min	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.48	%	
Across Flow : 24 hr	0.33	%	
Water Absorption ¹ (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 30 sec)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Break ²	5.00	MPa	ASTM D638
Break	4.00	MPa	ISO 527-2/50
Tensile Elongation			
Break ³	> 400	%	ASTM D638
Break	> 400	%	ISO 527-2/50
Flexural Modulus ⁴			
100 mm Span	50.0	MPa	ASTM D790
--	50.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	46.0	N/mm	ISO 6383-1

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -40.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.7E+16	ohms·cm	IEC 60093
Electric Strength (2.00 mm, in Oil)	26	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.40		
60 Hz	2.40		
1 MHz	2.40		
Dissipation Factor			IEC 60250
50 Hz	0.037		
60 Hz	0.037		
1 MHz	5.2E-4		
Comparative Tracking Index	600	V	IEC 60112
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		

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