NORYL™ WCP761 resin

Polyphenylene Ether + TPE

SABIC Innovative Plastics Asia Pacific

Message:

Flexible NORYL injection molding grade. Low specific gravity with very good non-halogenated flame retardant performance. Developed for evaluation in overmolding applications such as plugs, strain relief's, and connectors. UL94 V-0 performance with good processability.

General Information	
UL YellowCard	E207780-100082657
Additive	Flame Retardant
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	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
210°C/5.0 kg	15	g/10 min	
250°C/2.16 kg	20	g/10 min	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.1	%	
Across Flow : 24 hr	1.1	%	
Water Absorption [1] (23°C, 24 hr)	0.10	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 30 sec)	78		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Break [2]	7.50	MPa	ASTM D638
Break	8.00	MPa	ISO 527-2/50
Tensile Elongation			
Break [3]	170	%	ASTM D638
Break	170	%	ISO 527-2/50

Flexural Modulus [4]			
100 mm Span	50.0	MPa	ASTM D790
--	40.0	MPa	ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Trouser Tear Resistance	16.0	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	1.3E+16	ohms·cm	ASTM D257
Electric Strength (2.00 mm, in Oil)	25	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.50		IEC 60250
Dissipation Factor (1 MHz)	2.0E-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)	960	°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	65.0 to 75.0	°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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