+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

NORYL™ Resin WCP700

Americas: COMMERCIAL

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

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 50 mm/min	50	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	>400	%	ASTM D 638
Flexural Modulus, 12.5 mm/min, 100 mm span	500	kgf/cm²	ASTM D 790
Hardness, Shore A, 30S reading	70	-	ASTM D 2240
Tensile Stress, break, 50 mm/min	4	MPa	ISO 527
Tensile Strain, break, 50 mm/min	>400	%	ISO 527
Flexural Modulus, 12.5 mm/min	50	MPa	ISO 178
Tear strength	46	N/mm	ISO 6383
IMPACT			
Brittleness Temperature	<-40	°C	ASTM D 746
PHYSICAL			
Specific Gravity	0.93	-	ASTM D 792
Water Absorption, 23°C/48hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.48	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.33	%	ASTM D 955
Melt Flow Rate, 200°C/5.0 kgf	10	g/10 min	ASTM D 1238
Melt Flow Rate, 210°C/5 kgf	17	g/10 min	ASTM D 1238
ELECTRICAL			
Volume Resistivity	1.7E+16	Ohm-cm	IEC 60093
Dielectric strength in oil, 2.0mm	26	kV/mm	IEC 60243-1
Relative Permittivity, 1 MHz	2.4	-	IEC 60250
Dissipation Factor, 50/60 Hz	0.037	-	IEC 60250
Dissipation Factor, 1 MHz	0	-	IEC 60250
Comparative Tracking Index	600	V	IEC 60112

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
ELECTRICAL			
Relative Permittivity, 50/60 Hz	2.4	-	IEC 60250

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	60 - 80	°C
Drying Time	4 - 6	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.01	%
Melt Temperature	220 - 250	°C
Nozzle Temperature	220 - 250	°C
Front - Zone 3 Temperature	220 - 250	°C
Middle - Zone 2 Temperature	210 - 240	°C
Rear - Zone 1 Temperature	180 - 220	°C
Mold Temperature	40 - 60	°C
Back Pressure	3 - 10	MPa
Screw Speed	30 - 80	rpm
Shot to Cylinder Size	30 - 70	%
Vent Depth	0.03 - 0.05	mm