

Shinil Chemical SHINCON PPS-CNT LCD Rack

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LCD Rack is used to transfer or bake LCD frame in the electronic assembly or LCD packaging assembly line. Current LCD Rack is made of poly ether ether ketone (PEEK) with carbon fiber (CF). Since both materials cost high, there is a need to design the material with cost effectiveness. Also, the current LCD Rack has a concern of sloughing by CF particulates. SHINIL solves these problems with the CNT composite of polyphenylene sulfide (PPS), polyether sulfone (PES), PEEK, or polyether imide (PEI) by providing the cost effectiveness combined with enhanced mechanical properties. Especially, the wear resistance (coefficient of friction, coefficient of abrasion) of SHINIL CNT composite was much lower than the current PEEK material, which will provide the material for clean/dust free LCD operation environments. Features and Benefits Permanent electro conductivity Improved mechanical properties No particulates and no sloughing Lighter weight Recyclability Low abrasion and friction Improved surface Cost effective Information Provided by Shinil Chemical Industry Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shinil-Chemical-SHINCON-PPS-CNT-LCD-Rack.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	98.1 MPa	14200 psi	
Flexural Strength	225.63 MPa	32725 psi	
Flexural Modulus	20.6 GPa	2990 ksi	
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	
Coefficient of Friction, Dynamic	0.3081 @Time 3600 sec, Pressure 1.96 MPa	0.3081 @Time 1.00 hour, Pressure 284 psi	0.2 m/s

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	275 Â°C	527 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+7 ohm-cm	2.00e+7 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Â°C	554 Â°F	

Descriptive Properties	Value	Comments
Abrasion Weight (g)	0.0004	Wear Tester 0.2m/s; 20kgf/cm ² ; 1hr
Coefficient of Abrasion (10 ⁻³ cm ² -sec/kgf-m-hr)	0.0279	Wear Tester 0.2m/s; 20kgf/cm ² ; 1hr

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