

Lupoy® NF1005F 03R

Polycarbonate

LG Chem Ltd.

Message:

LUPOY NF 1005F03R, eco-friendly UL94 V0/1.5 mm, is designed for extrusion products. It combines an excellent physical property balance of heat resistance, transparency and impact strength and exhibits excellent processing characteristics.

General Information			
UL YellowCard	E67171-100907349	E67171-101412772	
Features	Bromine Free		
	Chlorine Free		
	Good Impact Resistance		
	Good Mold Release		
	Good Processability		
	High Clarity		
	High Heat Resistance		
	High Viscosity		
	Low (to None) Phosphorus Content		
Uses	Telecommunications		
UL File Number	E306922		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C, 50% RH	0.32	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	73		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C ¹	62.0	MPa	
Break	66.0	MPa	
Tensile Elongation			ASTM D638
Yield	6.0	%	

Break	120	%	
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength	90.0	MPa	ASTM D790
Taber Abrasion Resistance - Change in Haze ²	45	%	ASTM D1004
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C, 3.20 mm)	930	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Instrumented Dart Impact ⁴ (23°C, 3.20 mm, Total Energy)	89.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 4.00 mm	138	°C	
1.8 MPa, Unannealed, 4.00 mm	126	°C	
Vicat Softening Temperature	147	°C	ASTM D1525 ⁵
Ball Indentation Temperature	> 125	°C	IEC 60598-1
CLTE - Flow (-40 to 82°C)	6.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.0E+17	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.00		ASTM D150
Dissipation Factor (60 Hz)	1.0E-3		ASTM D150
Comparative Tracking Index (2.00 mm)	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
2.00 mm	V-0		
3.00 mm	V-0		
Glow Wire Ignition Temperature ⁶ (2.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	35	%	ASTM D2863
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ASTM D542
Transmittance	86.0	%	ASTM D1003
Haze	0.70 to 2.0	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	1000g, 500 cycles, CS-10F Wheel		
3.	0.25 mm Notch Depth		
4.	3.38 m/sec		
5.	Rate A (50°C/h), Loading 2 (50 N)		
6.	5 sec		

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