Laril 13-V1KC

Polyphenylene Ether + PS

LATI S.p.A.

Message:

Modified Polyphenylene Oxyde (PPOm).
Product UL certified.
High dimensional stability. Good thermal resistance.

General Information	
UL YellowCard	E54080-244057
Features	Good Dimensional Stability
	Medium Heat Resistance

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183
Molding Shrinkage [1]			ISO 294-4
Across Flow : 2.00 mm	0.50 to 0.70	%	
Flow : 2.00 mm	0.40 to 0.65	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2/1
23°C	5000	MPa	
60°C	4300	MPa	
90°C	3600	MPa	
120°C	3200	MPa	
Tensile Stress			ISO 527-2/5
Yield, 120°C	20.0	MPa	
Break, 23°C	65.0	MPa	
Break, 60°C	55.0	MPa	
Break, 90°C	40.0	MPa	
Break, 120°C	20.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 120°C	1.5	%	
Break, 23°C	2.0	%	
Break, 60°C	2.0	%	
Break, 90°C	2.2	%	
Break, 120°C	2.5	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	15	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	35	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ISO 75-2/A
Continuous Use Temperature [2]	105	°C	
Vicat Softening Temperature	145	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-6	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index [3] (Solution A)	250	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.50 mm	V-1		
3.00 mm	V-1		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Oxygen Index	30	%	ASTM D2863
Injection	**Nominal Value**	**Unit**	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	80.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

Recommended distributors for this material

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