

SAXALAC™ 420HI

Acrylonitrile Butadiene Styrene

SAX Polymers

Message:

Saxalac 420HI is a flame retardant, very high flow ABS injection molding grade, characterized by good processability and high stiffness.

General Information			
UL YellowCard	E248415-503509		
Features	Flame Retardant		
	Good Processability		
	High Flow		
	High Stiffness		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	
Melt Volume-Flow Rate (MVR)			ISO 1133
220°C/10.0 kg	50.0	cm ³ /10min	
220°C/5.0 kg	6.00	cm ³ /10min	
Molding Shrinkage	0.40 to 0.70	%	
Moisture Content ¹	< 0.20	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	40.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	42	kJ/m ²	
23°C	65	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	4.0	kJ/m ²	
23°C	10	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180
-30°C	40	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature ² (1.8 MPa, Unannealed, 60.0 mm Span)	82.0	°C	ISO 75-2/A
Vicat Softening Temperature	93.0	°C	ISO 306/B50
Ball Pressure Test (80°C, 2.00 mm)	Pass		IEC 60335-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.00 mm)	V-0		UL 94
Glow Wire Flammability Index	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	B130		
2.	80*10*4mm		

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