

DENKA Polymer Alloy HS-K190

Polycarbonate + ABS

Denka Company Limited

Message:

DENKA Polymer Alloy HS-K190 is a Polycarbonate + ABS (PC+ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
UL YellowCard	E49895-241463		
Features	High Impact Resistance		
UL File Number	E49895		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.12	g/cm ³	ASTM D792
23°C	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.50 to 0.70	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	118		ASTM D785
R-Scale	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	51.0	MPa	ASTM D638
--	2330	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	58.0	MPa	
Break	47.0	MPa	
Nominal Tensile Strain at Break	64	%	ISO 527-2/50
Flexural Modulus			
-- ²	2260	MPa	ASTM D790
-- ³	2450	MPa	ISO 178
Flexural Strength			
-- ⁴	80.0	MPa	ASTM D790
-- ⁵	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	110	kJ/m ²	ISO 179
Notched Izod Impact	1200	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed ⁶	107	°C	ASTM D648
1.8 MPa, Unannealed	99.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	118	°C	ASTM D1525 ⁷
--	115	°C	ISO 306/B
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	220 to 240	°C	
Middle Temperature	230 to 250	°C	
Front Temperature	240 to 260	°C	
Nozzle Temperature	240 to 260	°C	
Mold Temperature	60.0 to 90.0	°C	
Back Pressure	0.490 to 1.47	MPa	
NOTE			
1.	5.0 mm/min		
2.	15 mm/min		
3.	2.0 mm/min		
4.	15 mm/min		
5.	2.0 mm/min		
6.	Edgewise		
7.	Loading 2 (50 N)		

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