

TRILAC® ABS-HS5500

Acrylonitrile Butadiene Styrene
Polymer Technology and Services, LLC

Message:

TRILAC® ABS-HS5500 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
Features	High Impact Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength (Yield)	70.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
3.17 mm	300	J/m	
6.35 mm	270	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	96.0	°C	
1.8 MPa, Unannealed	87.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	HB		
3.17 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	87.8 to 93.3	°C	
Drying Time	2.0 to 24	hr	
Rear Temperature	193	°C	
Middle Temperature	216	°C	
Front Temperature	232	°C	

Processing (Melt) Temp	218 to 260	°C
Mold Temperature	48.9 to 65.6	°C
Injection Pressure	68.9 to 82.7	MPa
Injection Rate	Slow-Moderate	
Back Pressure	0.689	MPa
Screw Speed	50 to 60	rpm

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