Optilac LGH

The Materials Group - *Acrylonitrile Butadiene Styrene*

General Information

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• High Heat Resistance	• Low Gloss	
Uses	• Automotive Applications		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	10	cm³/10min	ISO 1133
Molding Shrinkage	0.30 to 0.60	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	6530	psi	ISO 527-2
Tensile Strain (Break)	50	%	ISO 527-2
Flexural Modulus	290000	psi	ISO 14125
Flexural Stress	10200	psi	ISO 14125
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	11	ft·lb/in²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	187	°F	ISO 75-2/A
Deflection Temperature Under Load (264 psi, Annealed)	223	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	190 to 200	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.010	%
Rear Temperature	380 to 460	°F
Middle Temperature	410 to 480	°F
Front Temperature	430 to 490	°F
Nozzle Temperature	450 to 525	°F
Processing (Melt) Temp	450 to 525	°F
Mold Temperature	120 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

Notes

[1] Typical properties: these are not to be construed as specifications.