Technical Data Sheet

Centrex ASA 821 1829 UVBLK

Acrylonitrile Styrene Acrylate

Product Description

Centrex ASA 821 is an injection molding grade with enhanced heat resistance and best chemical resistance among the ASA grades.

Processing Method	Injection Molding
Attribute	Good Chemical Resistance; Good Stiffness; UV Resistant
Forms	Pellets
Application	Household Goods; Housings

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	12	cm³/10 min	ISO 1133
Density	1.08	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (23 °C)	46.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (23 °C)	34	%	ISO 527-2
Tensile Strain at Yield, (23 °C)	2.3	%	ISO 527-2
Tensile Modulus	2360	MPa	ISO 527-1
Flexural Stress, (23 °C)	73.8	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C)	15	kJ/m²	ISO 179
(-30 °C)	4.0	kJ/m²	ISO 179
Hardness			
Rockwell Hardness, (R-Scale)	108		ISO 2039-2
Thermal			
Vicat Softening Temperature	109	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	97.1	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	85	°C	ISO 75-2/A

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	240 to 280	°C
Mold Temperature	40 to 80	°C