Technical Data Sheet

Centrex ASA 485CS NAT 000000NAT

Acrylonitrile Styrene Acrylate

Product Description

Centrex ASA 485CS NAT 000000NAT is a Acrylonitrile Styrene Acrylate material and is typically used in Coextrusion, Extrusion, Thermoforming applications. Features include: Good Melt Strength, Good Weather Resistance, Low Gloss, Medium Impact Resistance, and UV Resistant.

Processing Method	Coextrusion; Extrusion
Attribute	Good Melt Strength; Good Weather Resistance; Low Gloss; Medium Impact Resistance; UV Resistant
Forms	Pellets
Application	Automotive Applications; Automotive Exterior Parts; Automotive Interior Parts; Exterior Trim; Outdoor Applications

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(220 °C/10.0 kg)	6.1	g/10 min	ISO 1133
(220 °C/10.0 kg)	5.0	g/10 min	ASTM D1238
Density, (23 °C, Method A)	1.07	g/cm³	ISO 1183
Density - Specific Gravity	1.06	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield, (5.1 mm/min)	26.5	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	1380	MPa	ASTM D790
Tensile Modulus, (5.1 mm/min)	1450	MPa	ASTM D638
Flexural Strength, (1.3 mm/min)	38.6	MPa	ASTM D790
Impact			
Instrumented Dart Impact			
(23 °C, Total Energy)	24.0	J	ASTM D3763
(-30 °C, Total Energy)	6.00	J	ASTM D3763
(-18 °C, Total Energy)	16.0	J	ASTM D3763
Notched Izod Impact			
(-40 °C, 3.18 mm)	43	J/m	ASTM D256
(23 °C, 3.18 mm)	130	J/m	ASTM D256
(-18 °C, 3.18 mm)	64	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	69		ASTM D785
Thermal			
Vicat Softening Temperature	100	°C	ASTM D1525

Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	68.3	°C	ASTM D648
Coefficent of Linear Thermal Expansion (CLTE), Flow	9.4E-05	cm/cm/°C	ASTM D696
Optical			
Gloss			
(60°)	10		ASTM D523
(60°)	20		ASTM D523
UL Information			
Flame Rating, (1.5 mm)	HB		UL 94
UL File Number, (USA)	E150937		

Extrusion Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Melt Temperature	204 to 243	°C
Suggested Max Moisture	<0.030	%
Die Temperature	210 to 241	°C
Suggested Max Regrind	40	%
Drying Temperature	82 to 93	°C