

Technical Data Sheet  
**Centrex<sup>®</sup> FerroFlex**  
**FF00001922 NAT**

Acrylonitrile Styrene Acrylate  
 Engineering Plastics



General			
Features	<ul style="list-style-type: none"> <li>• Good Melt Strength</li> <li>• Low Gloss</li> </ul>	<ul style="list-style-type: none"> <li>• Medium Impact Resistance</li> <li>• UV Resistant</li> </ul>	<ul style="list-style-type: none"> <li>• Weather Resistant</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Automotive Exterior Parts</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive Exterior Trim</li> <li>• Automotive Interior Parts</li> </ul>	<ul style="list-style-type: none"> <li>• Outdoor Applications</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>• EC 1907/2006 (REACH)</li> </ul>	<ul style="list-style-type: none"> <li>• EU 2002/96/EC (WEEE)</li> </ul>	
RoHS Compliance	<ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul>		
UL File NumberUSA	<ul style="list-style-type: none"> <li>• E150937</li> </ul>		
Forms	<ul style="list-style-type: none"> <li>• Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>• Coextrusion</li> </ul>	<ul style="list-style-type: none"> <li>• Extrusion</li> </ul>	<ul style="list-style-type: none"> <li>• Thermoforming</li> </ul>

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.06	1.06 g/cm <sup>3</sup>	ASTM D792
73°F (23°C)	1.07 g/cm <sup>3</sup>	1.07 g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	5.0 g/10 min	5.0 g/10 min	ASTM D1238
220°C/10.0 kg	6.1 g/10 min	6.1 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus <sup>1</sup>	210000 psi	1450 MPa	ASTM D638
Tensile Strength <sup>1</sup> (Yield)	3850 psi	26.5 MPa	ASTM D638
Flexural Modulus - Tangent <sup>2</sup>	200000 psi	1380 MPa	ASTM D790
Flexural Strength <sup>2</sup>	5600 psi	38.6 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-40°F (-40°C), 0.125 in (3.18 mm)	0.80 ft·lb/in	43 J/m	
0°F (-18°C), 0.125 in (3.18 mm)	1.2 ft·lb/in	64 J/m	
73°F (23°C), 0.125 in (3.18 mm)	2.4 ft·lb/in	130 J/m	
Instrumented Dart Impact			ASTM D3763
-22°F (-30°C), Total Energy	53.1 in·lb	6.00 J	
0°F (-18°C), Total Energy	142 in·lb	16.0 J	
73°F (23°C), Total Energy	212 in·lb	24.0 J	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	69	69	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	155 °F	68.3 °C	
Vicat Softening Temperature	212 °F	100 °C	ASTM D1525
CLTE - Flow	5.2E-5 in/in/°F	9.4E-5 cm/cm/°C	ASTM D696

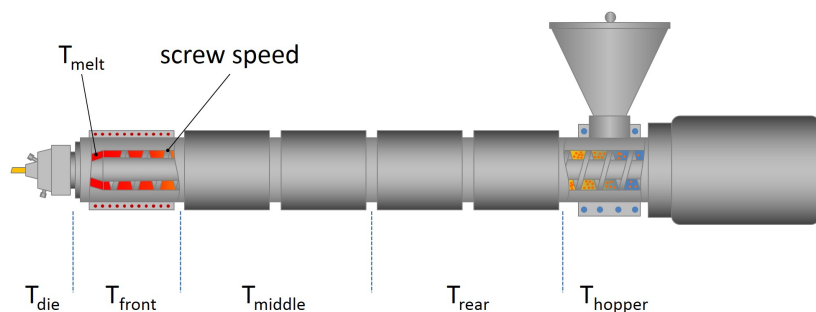
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Gloss			ASTM D523
60° <sup>3</sup>	20	20	
60° <sup>4</sup>	10	10	

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Extrusion	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 200 °F	82 to 93 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	< 0.03 %	< 0.03 %
Suggested Max Regrind	40 %	40 %
Melt Temperature	400 to 470 °F	204 to 243 °C
Die Temperature	410 to 465 °F	210 to 241 °C

**Extrusion Notes**

Polish roll Top: Down stack 200°F, Up stack 200°F  
 Polish roll Middle: Down stack 165°F, Up stack 190°F  
 Polish roll Bottom: Down stack 200°F, Up stack 180°F

**Notes**

- <sup>1</sup> 0.20 in/min (5.1 mm/min)
- <sup>2</sup> 0.050 in/min (1.3 mm/min)
- <sup>3</sup> Sheet
- <sup>4</sup> Formed

**Notes**

These are typical property values not to be construed as specification limits.