

Technical Data Sheet

Ferflo SPS05PK02NA

High Impact Polystyrene
LyondellBasell Industries
Engineering Plastics

General		
Additive	• Silicone Lubricant: 5%	
Features	• Lubricated	• Self Lubricating
Appearance	• Natural Color	
Forms	• Pellets	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.03	1.03 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 Kg)	35 g/10 min	35 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	3200 psi	22.1 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	30 %	30 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	250000 psi	1720 MPa	
Tangent : 73°F (23°C)	270000 psi	1860 MPa	
Flexural Strength (73°F (23°C))	4600 psi	31.7 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 In (3.18 Mm)	2.0 ft·lb/in	110 J/m	
Unnotched Izod Impact			ASTM D4812
73°F (23°C), 0.125 In (3.18 Mm)	5.0 ft·lb/in	270 J/m	
Gardner Impact (73°F (23°C))	16.0 in·lb	1.81 J	ASTM D5420

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	72	72	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	175 °F	79.4 °C	
264 Psi (1.8 Mpa), Unannealed	155 °F	68.3 °C	

Additional Information

The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.
Silicone Content, Compuglass: 5%

Notes

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