

## Technical Data Sheet

**Polyflam 15S3314DG6197GRY**

Polypropylene Copolymer

**Product Description**

15S3314DC is a 30% Fiberglass Reinforced, Flame Retardant Polypropylene Copolymer, Grey

<b>Processing Method</b>	Injection Molding
<b>Forms</b>	Pellets
<b>Appearance</b>	Grey
<b>Additive</b>	Flame Retardant
<b>Filler/Reinforcement</b>	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Flexural Strength at Yield, (1.3 mm/min, 23 °C)	67.7	MPa	ASTM D790
Tensile Strength at Break, (5.0 mm/min, 23 °C)	51.8	MPa	ASTM D638
Tensile Strain at Break, (23 °C, 5 mm/min)	<7.0	%	ISO 527-2
Flexural Modulus			
(1.3 mm/min, 23 °C, Tangent)	6370	MPa	ASTM D790
(23 °C, 2.0 mm/min, Tangent)	7230	MPa	ISO 178
Tensile Elongation at Break, (5.0 mm/min, 23 °C)	<7.0	%	ASTM D638
Tensile Stress at Break, (23 °C, 5 mm/min)	52.4	MPa	ISO 527-2
Tensile Modulus			
(23 °C)	6560	MPa	ASTM D638
(23 °C)	6590	MPa	ISO 527-1
Flexural Stress, (23 °C, 2.0 mm/min)	71.4	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	40	kJ/m <sup>2</sup>	ISO 179
(-30 °C)	19	kJ/m <sup>2</sup>	ISO 179
Instrumented Dart Impact			
(-30 °C, Total Energy, 2.20 m/sec, Brittle Failure)	13.4	J	ASTM D3763
(23 °C, Total Energy, 2.20 m/sec, Brittle Failure)	13.8	J	ASTM D3763
Notched Izod Impact			
(23 °C)	190	J/m	ASTM D256
(-30 °C)	110	J/m	ASTM D256

**Thermal**

Deflection Temperature Under Load Unannealed (0.45 MPa)	155 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	131 °C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	127 °C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	146 °C	ASTM D648
Coefficient of Linear Thermal Expansion (CLTE), Flow (TMA), (35 °C)	2.0E-5 cm/cm/°C	ASTM E831
Coefficient of Linear Thermal Expansion (CLTE), Perpendicular (TMA), (35 °C)	1.3E-4 cm/cm/°C	ASTM E831
RTI Str		
(1.5 mm)	65.0 °C	UL 746B
(3.0 mm)	65.0 °C	UL 746B
(2.5 mm)	65.0 °C	UL 746B

**UL Information**

Flame Rating		
(1.5 mm)	V-0	UL 94
(2.5 mm)	5VA	UL 94
(2.5 mm) (UL 94)	V-0	

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time	2.0 to 4.0	hr
Drying Temperature	82	°C
Nozzle Temperature	177 to 227	°C
Screw Speed	20 to 60	rpm
Processing (Melt) Temp	177 to 227	°C
Front Temperature	177 to 227	°C
Middle Temperature	177 to 227	°C
Rear Temperature	177 to 204	°C
Injection Rate	Moderate	
Back Pressure	<0.689	MPa
Mold Temperature	32 to 66	°C
Cushion	6.35 to 12.7	mm