

Technical Data Sheet

Polyflam 15S3324DCBLK



Polypropylene Copolymer

Product Description

15S3324DC is a 30% Fiberglass Reinforced, Flame Retardant Polypropylene Copolymer, Black

Regulatory Status

For regulatory compliance information, see 15S3324DCBLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Injection Molding
Forms	Pellets
Appearance	Black
Additive	Flame Retardant
Filler/Reinforcement	Glass Fiber, 30%

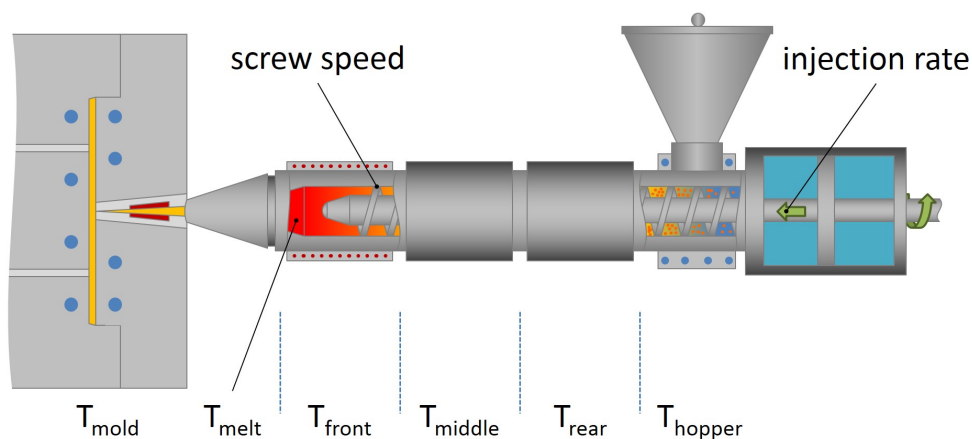
Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.45	g/cm ³	ASTM D792
Mechanical			
Flexural Strength at Yield, (1.3 mm/min, 23 °C)	67.7	MPa	ASTM D790
Tensile Strength at Break, (5.0 mm/min, 23 °C)	51.8	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
Impact			
Charpy Impact Strength - Notched			
(23 °C)	40	kJ/m ²	ISO 179
(-30 °C)	19	kJ/m ²	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-1	UL 94
(3.0 mm)	V-0	UL 94
(3.0 mm)	5VA	UL 94
(2.5 mm)	5VA	UL 94
(2.5 mm)	V-0	UL 94



Injection Parameters	Nominal Value	Units
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

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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