Polyflam 15S3324DCBLK

LyondellBasell Industries - Polypropylene Copolymer

General Information

Product Description

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

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.45		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	951000	psi	ASTM D638
Tensile Modulus (73°F)	956000	psi	ISO 527-1
Tensile Strength [2] (Break, 73°F)	7510	psi	ASTM D638
Tensile Stress (Break, 73°F)	7600	psi	ISO 527-2/5
Tensile Elongation [2] (Break, 73°F)	< 7.0	%	ASTM D638
Tensile Strain (Break, 73°F)	< 7.0	%	ISO 527-2/5
Flexural Modulus - Tangent [3] (73°F)	924000	psi	ASTM D790
Flexural Modulus - Tangent [4] (73°F)	1.05E+6	psi	ISO 178
Flexural Stress [4] (73°F)	10400	psi	ISO 178
Flexural Strength [3] (Yield, 73°F)	9820	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-22°F	9.0	ft·lb/in²	
73°F	19	ft·lb/in²	
Notched Izod Impact			ASTM D256
-22°F	2.1	ft·lb/in	
73°F	3.6	ft·lb/in	
Instrumented Dart Impact [5]			ASTM D3763
-22°F, Total Energy, Brittle Failure	119	in·lb	
73°F, Total Energy, Brittle Failure	122	in·lb	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	295	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	311	°F	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	261	°F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	268	°F	

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Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (95°F)	1.1E-5	in/in/°F	ASTM E831
CLTE - Transverse (95°F)	7.2E-5	in/in/°F	ASTM E831
RTI Str			UL 746B
0.06 in	149	°F	
0.10 in	149	°F	
0.12 in	149	°F	

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-1		
0.10 in	V-0		
0.12 in	V-0		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	351 to 399	°F
Middle Temperature	351 to 441	°F
Front Temperature	351 to 441	°F
Nozzle Temperature	351 to 441	°F
Processing (Melt) Temp	351 to 441	°F
Mold Temperature	90 to 151	°F
Injection Rate	Moderate	
Back Pressure	< 99.9	psi
Screw Speed	20 to 60	rpm
Cushion	0.250 to 0.500	in

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.20 in/min

[3] 0.051 in/min

[4] 0.079 in/min

[5] 7.22 ft/sec