Polyflam RIPP 510 D RED 58998

LyondellBasell Industries - Polypropylene Copolymer

General Information

Product Description		
Flame retardant PP-copolymer - grade without PBDE		
General		
Additive	• Flame Retardant	
Features	• Copolymer	• Flame Retardant
Processing Method	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.5	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	160000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	3340	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	12	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.4	ft·lb/in²	
73°F	9.5	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	29	ft·lb/in²	
73°F	No Break		
Notched Izod Impact (Area) (73°F)	4.76	ft·lb/in²	ASTM D256
Notched Izod Impact Strength			ISO 180/1A
-40°F	2.1	ft·lb/in²	
73°F	3.3	ft·lb/in²	
Unnotched Izod Impact Strength			ISO 180/1U
-40°F	21	ft·lb/in²	
73°F	No Break		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	8990	psi	ISO 2039-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	221	°F	ISO 75-2/Bf
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	140	°F	
Vicat Softening Temperature			
--	165	°F	ISO 306/B50
--	288	°F	ISO 306/A120
Ball Pressure Test (248°F)	Pass		IEC 60695-10-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1

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Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
0.030 in	V-2		
0.06 in	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.030 in	1760	°F	
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.030 in	1290	°F	
0.06 in	1250	°F	
0.12 in	1250	°F	
Oxygen Index	29	%	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	356	°F
Middle Temperature	392	°F
Front Temperature	410	°F
Nozzle Temperature	428	°F
Processing (Melt) Temp	356 to 428	°F
Mold Temperature	104 to 176	°F
Injection Pressure	11600 to 17400	psi
Injection Rate	Slow-Moderate	
Holding Pressure	5800 to 13100	psi
Back Pressure	725 to 1450	psi
Screw Speed	< 709	in/min
Cushion	< 0.197	in