HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Polyflam RMMK 125 NAT

LyondellBasell Industries - Acrylonitrile Butadiene Styrene + PA

General Information

Product Description

Flame-retardant ABS/PA blend; without PBDE; high stress crack resistance

General

Additive	• Flame Retardant	
Features	• Flame Retardant	• High ESCR (Stress Crack Resist.)
Processing Method	• Injection Molding	

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.30	--	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR)				ISO 1133
250°C/5.0 kg	12	--	cm³/10min	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	363000	136000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	7540	4210	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	16	%	ISO 527-2/1A/50
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.3	--	ft·lb/in²	
73°F	5.7	10	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	No Break	No Break		
73°F	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2/Bf
66 psi, Unannealed	235	--	°F	
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	140	--	°F	
Vicat Softening Temperature				
--	313	--	°F	ISO 306/B50
--	374	--	°F	ISO 306/A50
Ball Pressure Test (257°F)	Pass	--		IEC 60695-10-2
RTI Elec				UL 746B
0.06 in	140	--	°F	
0.12 in	140	--	°F	
RTI Imp				UL 746B
0.06 in	140	--	°F	
0.12 in	140	--	°F	
RTI Str				UL 746B
0.06 in	140	--	°F	
0.12 in	140	--	°F	

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	--	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	--	ohms·m	IEC 62631-3-1
Comparative Tracking Index	200	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate [2]				
0.0787 in	0.0	--	in/min	FMVSS 302
0.0787 in	0.0	--	in/min	ISO 3795
Flame Rating				UL 94
0.06 in	V-0	--		
0.12 in	V-0	--		
0.08 in	5VA	--		
Flammability Classification				IEC 60695-11-10, -20
0.06 in	V-0	--		
0.12 in	V-0	--		
0.08 in	5VA	--		
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
0.06 in	1380	--	°F	
0.12 in	1380	--	°F	
Oxygen Index	31	--	%	ISO 4589-2

Processing Information

Injection	Dry	Unit
Drying Temperature	158 to 176	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	464 to 500	°F
Mold Temperature	104 to 176	°F
Injection Rate	Slow-Moderate	
Back Pressure	725 to 1450	psi
Screw Speed	< 591	in/min

Notes

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

[2] Self-Extinguishing