POLYFLAM® RIPP 4000

Polypropylene Copolymer

A. Schulman Europe

Message:

Unfilled flame-retardant PP-Copolymer, halogenfree

General Information			
Features	Copolymer Workability, good Halogen-free Flame retardancy		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP FR(51)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.05	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	13.0	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	20.0	MPa	ISO 527-2/1A/50
Fracture	15.7	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.2	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	27	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.3	kJ/m²	ISO 179/1eA
23°C	4.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	16	kJ/m²	ISO 179/1eU
23°C	55	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	97.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	77.0	°C	ISO 306/B50
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
0.8 mm	V-0		IEC 60695-11-10, -20
1.6 mm	V-0		IEC 60695-11-10, -20
3.2 mm	V-0		IEC 60695-11-10, -20
	5V		
3.0 mm	5VA		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
0.75 mm	960	°C	IEC 60695-2-12
1.5 mm	960	°C	IEC 60695-2-12
3.0 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.75 mm	725	°C	IEC 60695-2-13
1.5 mm	725	°C	IEC 60695-2-13
3.0 mm	725	°C	IEC 60695-2-13

Additional Information
1.) Not for use in food contact applications2.) Not for use in medical or pharmaceutical applications

Injection	Nominal Value	Unit
Drying Temperature	70	°C
Drying Time	2.0 - 4.0	hr
Processing (Melt) Temp	180 - 210	°C
Mold Temperature	40 - 80	°C
Injection Pressure	80.0 - 120	MPa
Injection Rate	Slow-Moderate	
Holding Pressure	40.0 - 90.0	MPa
Back Pressure	5.00 - 10.0	MPa
Screw Speed		mm/sec

Injection instructions
PredryingPredrying at 70°C for 2-4 hours is recommended as a precaution.ReprocessingAddition of regrind is normally possible, but it must be tested in each case regarding the percentage and requirements of the article. Thermal damage during first processing depends on processing parameters and the geometry of flow path and article.Shut downAvoid long melt residence time. Purge with base polymer or with polyolefines.FinishingMachining is usually possible.

Recommended distributors for this material

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