Radilon® A BMV150HHR 3800 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 15% glass fibre reinforced, high viscosity blow moulding grade. Highly heat stabilized, excellent thermal resistance. Black colour.

Suitable for hollow parts such as tubes and containers. Especially developed for automotive hot side turbo air ducts when temperature can reach 210°C. Also suitable for cooling circuit pipes.

General			
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized	• High Heat Resistance	• High Viscosity
Uses	• Automotive Applications • Containers	• Piping • Tubing	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• Blow Molding		
Resin ID (ISO 1043)	• PA66-GF15		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)				ISO 1133
290°C/5.0 kg	10	--	g/10 min	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	667000	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	13100	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	4.5	--	%	ISO 527-2/1A/5
Flexural Modulus [2]	580000	--	psi	ISO 178
Flexural Stress [2]	19600	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
73°F	9.5	--	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	33	--	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	410	--	°F	
Melting Temperature [3]	482	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.031 in)	HB	--		UL 94

Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	176 to 194	°F
Injection Rate	Moderate-Fast	

Notes

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

[2] 0.079 in/min

[3] 10°C/min