

Radilon® S 40 EPT2808 333 NER

Polyamide 6

Radici Plastics

Message:

PA6 high viscosity extrusion grade. Low modulus, high flexibility and high impact strength, even at low temperatures. Black colour.

This material has been designed for extrusion of pipes. Typical application: convoluted fuel pipes for the automotive industry.

ISO 1043 : PA6-HIP

General Information				
Features	Good Flexibility			
	Good Impact Resistance			
	High Viscosity			
	Low Temperature Impact Resistance			
Uses	Automotive Applications			
	Fuel Lines			
	Piping			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Extrusion			
	Injection Molding			
Resin ID (ISO 1043)	PA6-HIP			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	900	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	35.0	--	MPa	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	550	--	MPa	ISO 178
Flexural Stress ²	25.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	65	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	120	--	°C	ISO 306/B50

Melting Temperature ³	220	--	°C	ISO 11357
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 30	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature - Desiccant Dryer	80.0		°C	
Drying Time - Desiccant Dryer	2.0 to 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	250 to 280		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Rate	Moderate			
Extrusion	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Melt Temperature	240 to 270		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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