

Borealis PP PP4874

Polypropylene

Borealis AG

Message:

PP4874 is a polypropylene compound intended for the solid insulation of data cables.

General Information			
Uses	Wire & Cable Applications		
Agency Ratings	ASTM D 4101 PP0120B77000 E11		
	EN 50288		
	EN 50290-2-25		
	IEC 61156		
	ISO 1873-1, KGHN, 1605-D022/045		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.912	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.8	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 1 sec)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	55.0	MPa	IEC 60811-501
Tensile Strain (Yield)	700	%	IEC 60811-501
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (-20°C)	19	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (200°C)	30	min	ISO 11357
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.26		IEC 60250
Dissipation Factor (1 MHz)	2.0E-4		IEC 60250
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 2 Temp.	200	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	220	°C	
Adapter Temperature	220	°C	
Die Temperature	220	°C	

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