

Terralene® PP 2509

Polypropylene Copolymer

FKuR Kunststoff GmbH

Message:

Polypropylen copolymer blend with biobased high density polyethylene. The biobased carbon content (BCC) is 33 % (determined according to ASTM D6866). Suitable for injection moulding applications such as bins.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 33% filler by weight		
Features	Copolymer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.916	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	42 - 47	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	31.0 - 35.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	910	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	20.5	MPa	ISO 527-2
Fracture	9.00	MPa	ISO 527-2
Tensile Strain (Break)	140	%	ISO 527-2
Tensile Strain at Tensile Strength	15	%	ISO 527
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (Complete Break)	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ²	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	117	°C	ISO 306/A
Melting Temperature	160 - 165	°C	ISO 3146
Injection	Nominal Value	Unit	
Rear Temperature	180	°C	
Middle Temperature	190	°C	
Front Temperature	200	°C	
Nozzle Temperature	205	°C	
Mold Temperature	40	°C	
Injection instructions			
Holding Pressure: 40 - 70 %Melt cushion (of volume): 3 - 10 %Cooling time: 15 secMax. dwell time: 300 sec.			
NOTE			
1.	RT		

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