

SLOVALEN® PH 59 T 40 LW 031

Polypropylene

Plastcom

Message:

Modified homopolymer PP for injection moulding with the content of 40% microground, floated, chemically modified talc. Contains modifier for laser labeling of finished parts. /LASER NdIAG - 1064nm/. Application in automotive industry. Covers of car chassis, fenders, motors etc. Delivered in black mode.

General Information			
Filler / Reinforcement	Talc, 40% Filler by Weight		
Features	Homopolymer		
	Laser Markable		
Uses	Automotive Applications		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.3	%	
Flow	1.3	%	
Water Content	< 0.20	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	1.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	12	kJ/m ²	
23°C	24	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	130	°C	ISO 75-2/B

Vicat Softening Temperature	160	°C	ISO 306/B
Melting Temperature (DSC)	160	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	200 to 250	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	70.0 to 120	MPa	

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