

SLOVALEN® PC 78 FRT 5

Polypropylene

Plastcom

Message:

Modified copolymer PP for injection moulding, contains the modifier of mechanical properties and non halogen and free phosphor flame retardant. Increased strength in comparison with unfilled PP. Applied in all industry branches. Increased strength, toughness, modulus in tension due to the modification. Delivered in natural mode and in the full RAL colour scale.

General Information			
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Chemically Coupled		
	Copolymer		
	Flame Retardant		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.8	%	
Flow	1.7	%	
Water Content	0.20	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress (Yield)	20.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Flexural Stress	30.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	1.0	kJ/m ²	
23°C	2.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	10	kJ/m ²	
23°C	16	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	68.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/B
Melting Temperature (DSC)	145	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Ignition Temperature (3.00 mm)	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	200 to 250	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	

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