

EL-Pro™ P500J

Polypropylene Homopolymer
SCG Chemicals Co., Ltd.

Message:

EL-Pro P500J is a high flowability polypropylene homo polymer. This grade is designed for compounding and injection moulding with excellent thermal stability. It is suitable for electrical appliance compounding.

General Information			
Features	Rigidity, high		
	Homopolymer		
	High liquidity		
	Thermal stability, good		
	Compliance of Food Exposure		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical appliances		
	Home appliance components		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Composite		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength - Across Flow ¹			ASTM D638
Yield	36.3	MPa	ASTM D638
Fracture	26.5	MPa	ASTM D638
Flexural Modulus	1620	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	20	J/m	ASTM D256
0°C	20	J/m	ASTM D256
23°C	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	102	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525
Melting Temperature	163	°C	ASTM D2117
Optical	Nominal Value	Unit	Test Method
Gloss	51		ASTM D2457
Haze	82	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Thermal-oxidative Deterioration (150°C)	> 15.0	day	TPE
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 270	°C	
Mold Temperature	25.0 - 70.0	°C	
Injection Rate	Fast		
Screw Speed	40 - 70	rpm	
Injection instructions			
Pressure: Injection 40-80%Packing and holding: 30 to 60%Back 10%			
NOTE			
1.	50 mm/min		

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