

EL-Pro™ P642J

Polypropylene Impact Copolymer

SCG Chemicals Co., Ltd.

Message:

EL-Pro P642J is an impact copolymer polypropylene resin which contains anti-static agent and UV stabilizer suitable for injection molding process. This resin is recommended for product that requires high stiffness with good impact strength

General Information			
Additive	Antistatic property		
	UV stabilizer		
Features	Good dimensional stability		
	Rigidity, high		
	Impact copolymer		
	Antistatic property		
	Impact resistance, good		
	Good UV resistance		
	Workability, good		
	Good weather resistance		
Uses	Compliance of Food Exposure		
	Electrical/Electronic Applications		
	Electrical components		
	Electrical appliances		
	Industrial application		
	Home appliance components		
	Household goods		
Agency Ratings	Application in Automobile Field		
	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	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)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength - Across Flow ¹			ASTM D638
Yield	27.5	MPa	ASTM D638

Fracture	17.7	MPa	ASTM D638
Flexural Modulus	1370	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	39	J/m	ASTM D256
0°C	59	J/m	ASTM D256
23°C	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525
Melting Temperature	120 - 163	°C	ASTM D2117
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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