

EL-Pro™ P700J

Polypropylene Homopolymer
SCG Chemicals Co., Ltd.

Message:

EL-Pro P700J is a homopolymer polypropylene resin suitable for general purpose product produced from injection molding process.

General Information			
Features	Homopolymer		
	Workability, good		
	The smell is low to none		
	Compliance of Food Exposure		
	General		
Uses	Household goods		
	Business equipment		
	Food container		
	General		
	Toys		
Agency Ratings	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)	12	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 2.00mm	1.2	%	ASTM D955
Transverse flow: 2.00mm	1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength - Across Flow ¹			ASTM D638
Yield	31.4	MPa	ASTM D638
Fracture	19.6	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Flexural Modulus	1420	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			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			ASTM D648
0.45 MPa, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	65.0	°C	ASTM D648
Brittleness Temperature	-20.0	°C	ASTM D746
Vicat Softening Temperature	155	°C	ASTM D1525
Melting Temperature	163	°C	ASTM D2117
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss	51		ASTM D2457
Haze	47	%	ASTM D1003
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			
Injection Pressure: 40 to 80% of max. pressurePacking and Holding Pressure: 30 to 60% of max. pressureBack Pressure: 10% of max. pressure			
NOTE			
1.	50 mm/min		

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