EL-Pro™ P842J

Polypropylene Impact Copolymer

SCG Chemicals Co., Ltd.

Message:

EL-Pro P842J is an impact copolymer polypropylene resin suitable for injection molding process. This resin is recommended for product that requires very high stiffness and very high processibility.

General Information			
Features	Good dimensional stability		
	Rigidity, high		
	Impact copolymer		
	Impact resistance, high		
	Workability, good		
	High liquidity		
	Compliance of Food Exposure		
Uses	Electrical components		
	Home appliance components		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.910	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 2.00mm	1.4	%	ASTM D955
Transverse flow: 2.00mm	1.3	%	ASTM D955
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	28.9	MPa	ASTM D638
Fracture	17.7	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	1420	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-20°C	34	J/m	ASTM D256
0°C	44	J/m	ASTM D256

23°C	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	115	°C	ASTM D648
1.8 MPa, not annealed	55.0	°C	ASTM D648
Brittleness Temperature	-20.0	°C	ASTM D746
Vicat Softening Temperature	150	°C	ASTM D1525
Melting Temperature	120 - 163	°C	ASTM D2117
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss	30		ASTM D2457
Haze	80	%	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		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China