

Product Texts

ELCRES FXP1430 is PC-siloxane copolymer in special "Lustre Plus" pearlescent appearance, which is part of the VisualFx family. This product features vivid and resplendent look with improved ductility and medium flow. UV stabilized. Color package may affect performance. Applications include housing of consumer electronics, cosmetic packaging, automotive interior decoration, etc.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2080	MPa	ISO 527
Yield stress	61	MPa	ISO 527
Yield strain	5.3	%	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	87	%	ISO 527
Flexural modulus, 23°C	2150	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Charpy impact strength, +23°C	132	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20.8	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	181	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	14.4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2150	MPa	ASTM D 638
Tensile Strength at Yield	61	MPa	ASTM D 638
Tensile Strength at Break	56	MPa	ASTM D 638
Elongation at Yield	6.2	%	ASTM D 638
Elongation at Break	79	%	ASTM D 638
Flexural Modulus	2240	MPa	ASTM D 790
Flexural Strength	94	MPa	ASTM D 790
Izod Impact notched, 1/8 in	578	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	129	J/m	ASTM D 256
Temperature	-10	°C	-
Izod Impact unnotched, 1/8 in	2170	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	114	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	129	°C	ISO 75-1/-2
Vicat softening temperature, B	133	°C	ISO 306
Coeff. of linear therm. expansion, parallel	79	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	87	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	70	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	81	E-6/K	ASTM D 696
DTUL @ 66 psi	127	°C	ASTM D 648
DTUL @ 264 psi	113	°C	ASTM D 648
Vicat Temperature	135	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.037	%	Sim. to ISO 62
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-

Melt temperature	295 - 315	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	260 - 280	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°C	-
Nozzle temperature	290 - 310	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather

Features

Ductile, Copolymer

Applications

Automotive, Electrical and Electronical, Packaging, Sports Equipment

Regional Availability

North America, Europe, Asia Pacific, South and Central America