

Product Texts

High viscosity Proprietary Polycarbonate Ester, OSU 55/55 compliant, low smoke, flame retardant resin

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	16	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	74	MPa	ISO 527
Yield strain	6.8	%	ISO 527
Stress at break	76	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2320	MPa	ISO 178
Charpy notched impact strength, +23°C	24	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	16	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2610	MPa	ASTM D 638
Tensile Strength at Yield	72	MPa	ASTM D 638
Tensile Strength at Break	73	MPa	ASTM D 638
Elongation at Yield	6.7	%	ASTM D 638
Elongation at Break	102	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	194	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	112	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	117	°C	ISO 75-1/-2
Vicat softening temperature, B	137	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	139	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	121	°C	ASTM D 648
Vicat Temperature	140	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.28	%	Sim. to ISO 62
Humidity absorption	0.11	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183
Density	1340	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	105	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	70 - 105	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 295	°C	-
Zone 3	280 - 305	°C	-

Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Additives

Flame retarding agent

Regional Availability

Asia Pacific

Special Characteristics

Flame retardant