



INEOS PP 3950

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

3950 is a low gloss, high impact nucleated polypropylene copolymer. It is best suited for automotive interior trim applications and other injection molding applications where high melt fluidity is important.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Nucleating Agent		
Features	• High Flow • High Impact Resistance	• Impact Copolymer • Low Gloss	• Nucleated
Uses	• Automotive Interior Trim		
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• Contact Manufacturer		
Automotive Specifications	• FORD WSS-M4D638-B	• GM GMP.PP.033	• GM GMW16208P-PP-T1
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.905		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	34	g/10 min	ASTM D1238
Molding Shrinkage - Flow (73°F, Injection Molded)	0.015	in/in	ASTM D955
Molding Shrinkage - Across Flow (73°F, Injection Molded)	0.016	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	3900	psi	ASTM D638
Tensile Strength ² (Break, Injection Molded)	2790	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	5.2	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	130	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	173000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F, Injection Molded	1.2	ft·lb/in	
73°F, Injection Molded	2.8	ft·lb/in	
Instrumented Dart Impact - Injection Molded			ASTM D3763
-4°F	Ductile Failure		
73°F	Ductile Failure		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	89		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	223	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Injection Molded	135	°F	

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Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-22.0 to -4.00	°F	ASTM D746
Vicat Softening Temperature	304	°F	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Hot-wire Ignition (HWI)			UL 746
0.06 in	PLC 3		
0.12 in	PLC 3		
Flammability	Nominal Value	Unit	Test Method
Burning Rate	0.95	in/min	FMVSS 302
Flame Rating			UL 94
0.06 in, NC	HB		
0.12 in, NC	HB		
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	69		ASTM D2457

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min