INEOS PP R01A-00

INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

R01A-00 is a low flow rate, antistatic polypropylene random copolymer. It is designed for blow molding, thermoforming and extrusion applications that require good stiffness and improved processability. Benefits of this grade include good see-through and contact clarity and good impact resistance at both room and refrigerator temperatures. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antistatic		
Features	• Antistatic • Contact Clarity • Food Contact Acceptable	• Good Impact Resistance • Good Stiffness • Low Flow	• Random Copolymer
Uses	• Blow Molding Applications	• Thermoforming Applications	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Thermoforming

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	4070	psi	ASTM D638
Tensile Strength [2] (Break)	3180	psi	ASTM D638
Tensile Elongation [2] (Yield)	13	%	ASTM D638
Tensile Elongation [2] (Break)	680	%	ASTM D638
Flexural Modulus - 1% Secant	143000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
39°F	0.70	ft·lb/in	
73°F	1.6	ft·lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F	1.71	ft·lb/in²	
73°F	3.95	ft·lb/in²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	76		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	176	°F	ASTM D648
Vicat Softening Temperature	271	°F	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°)	93		ASTM D2457
Haze [3] (50.0 mil)	57.0	%	ASTM D1003

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Notes

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

[2] 2.0 in/min

[3] 23°C