



INEOS PP R01C-01

INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

R01C-01 is a low melt flow rate high clarity nucleated random copolymer designed for extruded sheet and profiles, including blow molding and thermoformed packaging. End-use applications that require good see-through clarity combined with good heat resistance and refrigerator temperature impact properties can benefit from using R01C-01. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> North America 		
Additive	<ul style="list-style-type: none"> Nucleating Agent 		
Features	<ul style="list-style-type: none"> Food Contact Acceptable High Clarity 	<ul style="list-style-type: none"> Low Flow Medium Heat Resistance 	<ul style="list-style-type: none"> Nucleated Random Copolymer
Uses	<ul style="list-style-type: none"> Packaging 	<ul style="list-style-type: none"> Profiles 	<ul style="list-style-type: none"> Sheet
Agency Ratings	<ul style="list-style-type: none"> EC 1907/2006 (REACH) FDA 21 CFR 177.1520 		
RoHS Compliance	<ul style="list-style-type: none"> Contact Manufacturer 		
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Blow Molding Profile Extrusion 	<ul style="list-style-type: none"> Sheet Extrusion Thermoforming 	

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)	1.9	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	4270	psi	ASTM D638
Tensile Strength ² (Break, Injection Molded)	2740	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	13	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	170	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	159000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
39°F, Injection Molded	0.50	ft·lb/in	
73°F, Injection Molded	6.4	ft·lb/in	
Notched Izod Impact (Area)			ASTM D256
39°F, Injection Molded	1.24	ft·lb/in ²	
73°F, Injection Molded	15.9	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	81		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	190	°F	
Vicat Softening Temperature	271	°F	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	97		ASTM D2457

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Optical	Nominal Value	Unit	Test Method
Haze ³ (50.0 mil)	16.0	%	ASTM D1003

Notes

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

² 2.0 in/min

³ 23°C